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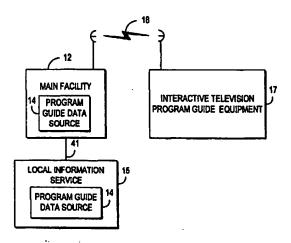
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(54) Title: INTERACTIVE PROGRAM GUIDE SYSTEM AND METHOD



(57) Abstract

An interactive television program guide system and method is provided. Time separators are displayed within lists of program listings to allow users to more easily view the program listings. On-screen arrows have their display characteristics changed according to user actions. Similar program listings are displayed only once when using search program listings. Users are provided with an opportunity to view channel information before setting channels as favorites. Information from local information services is provided in program guide display screens that are configurable by a main facility. Users are provided with an opportunity to centrally lock and unlock programs, and to bypass locks when desired.

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INTERACTIVE PROGRAM GUIDE SYSTEM AND METHOD

Background of the Invention

This invention relates to interactive television program guide systems, and more particularly, to interactive television program guide 5 systems with enhanced features and user interface.

Cable, satellite, and broadcast television systems provide viewers with a large number of television channels. Users have traditionally consulted printed television program schedules to determine the programs being broadcast at a particular time. More recently, interactive television program guides have been developed that allow television program information to be displayed on a user's television. Interactive television program guides,

which are typically implemented on set-top boxes, allow the user to navigate through television program listings using a remote control. In a typical program guide, various groups of television program listings are displayed in predefined or user-selected

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categories. Program listings are typically displayed in a grid or table.

Interactive television systems to this point have displayed program related information in less than optimal ways. Some program guides do not allow users to continue to watch television while viewing program guide data. Other program guide systems display too much data for the user at once, overwhelming the user.

It is therefore an object of the present
invention to provide an interactive televison program
guide system in which users are provided with easier
access to various program guide functions through an
enhanced user interface.

It is a further object of the present

invention to provide an interactive television program
guide system in which users are provided with the
opportunity to access program related information and
other information in new ways.

Summary of the Invention

These and other objects of the present invention are accomplished in accordance with the principles of the present invention by providing an interactive television program guide system in which television program listings and other television related information is displayed in a way that is visually pleasing to users and that is user friendly. In addition, the electronic television program guide of the present invention provides functions that have not been provided before by other electronic program guide systems.

In the electronic program guide system of the present invention, a main facility (e.g., a satellite

uplink facility) provides data from a data source to a number of television distribution facilities (e.g., a cable system headend, a broadcast distribution facility, a satellite television distribution facility, 5 or any other suitable distribution facility). may be multiple data sources, some of which may be located at different facilities and have their data provided to the main facility for localization and distribution. The data transmitted by main facility to 10 television distribution facility includes television programming data (e.g., titles, channels, content information, rating information, or any other information associated with television programming), and other program guide data for additional services 15 other than television program listings (e.g., weather information, associated Internet web links, computer software, etc.).

The electronic program guide of the present invention may be provided in systems in which program guide data is distributed from a main facility to an interactive television program guide implemented on user television equipment, via a television distribution facility. Other suitable systems involve systems in which data is distributed to a program guide on user television equipment using other suitable distribution schemes, such as schemes involving data transmission over the Internet or the like. If desired, the interactive television program guide application may be implemented using a client-server architecture in which the primary processing power for the application is provided by a server located at, for example, the television distribution facility or the

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main facility and user television equipment acts as a client processor.

Further features of the invention, its nature and various advantages will be more apparent from the accompanying drawings and the following detailed description of the preferred embodiments.

Brief Description of the Drawings

FIG. 1 is a schematic block diagram of an illustrative system in accordance with the present 10 invention.

FIGS. 2a-2d show illustrative arrangements for the interactive program guide equipment of FIG. 1 in accordance with the principles of the present invention.

15 FIG. 3 is an illustrative schematic block diagram of a user television equipment of FIGS. 2a-2d in accordance with the principles of the present invention.

FIG. 4 is a generalized schematic block
20 diagram of portions of the illustrative user television
equipment of FIG. 3 in accordance with the principles
of the present invention.

FIGS. 5a and 5b show illustrative "FLIP" overlays or banners that the program guide may display when the user indicates a desire to change television channels.

FIGS. 6a, 6b, and 6c show illustrative
"BROWSE" overlays or banners that the program guide may
display in response to an indication by a user to
30 browse through program listings for a given time slot.
FIG. 6b shows how a channel may be indicated as a
favorite in a BROWSE overlay.

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FIG. 7 shows an illustrative music flip overlay that the program guide may display when the user indicates a desire to change channels to a digital music channel.

- FIG. 8 shows an illustrative program guide display screen for providing a user with access to title, track, and artist information for a digital music channel.
- FIG. 9 shows an illustrative program guide 10 main menu screen for providing a user with an opportunity to navigate through program guide features.

FIG. 10 shows an illustrative program listings by time screen.

FIGS. 11a and 11b show illustrative program 15 listings by channel screens.

FIGS. 12a, 12b, 12c, 12d, and 12e show illustrative program listings by category screens.

FIGS. 13a, 13b and 13c are illustrative program guide display screens for providing a user with 20 an opportunity to textually search through program listings in various ways.

FIG. 14 shows a default display screen that may be displayed by the program guide when the user indicates a desire to display a listings screen for which there is no matching data.

FIGS. 15-16 are additional illustrative program guide display screens for providing a user with access to a passive electronic television program guide channel.

FIG. 17 shows another illustrative main menu screen for providing a user with an opportunity to navigate through program guide features.

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FIGS. 18-22, and 24 show illustrative program guide display screens for providing a user with access to pay-per-view, event, premium offers, and adult listings.

FIG. 23 shows an illustrative program guide display screen for providing a user with access to digital music channel information.

FIG. 25 shows an illustrative free pay-perview overlay for providing a user with access to free 10 pay-per-view previews.

FIGS. 26-29 show illustrative display screens with informational overlays for providing a user with access to information on channels, services, and programs that have not been subscribed to by a user.

15 FIGS. 30-31 show illustrative program guide display screens for providing a user with access to promotional channels.

FIG. 32 is another illustrative main menu screen for providing a user with an opportunity to 20 navigate through program guide features.

FIGS. 33a, 33b, 33c, 33d, and 33e show illustrative program guide display screens for providing a user with access to local information services.

25 FIGS. 34, 35, and 36 show illustrative program guide display screens for providing a user with access to messaging features of the program guide.

FIGS. 37-40 show illustrative program guide display screens for providing a user with access to favorite channel features of the program guide.

FIG. 41 is an illustrative program guide setup screen.

FIGS. 42-47 show illustrative program guide display screens for providing a user with access to setting up various program guide features.

FIGS. 48 and 49 show illustrative program guide display screens for providing a user with an opportunity to select languages for programming audio and program guide display screen text.

FIGS. 50 and 51 show illustrative program guide display screens for providing a user with an opportunity to set parental control codes.

FIGS. 52-54 show illustrative program guide display screens for providing a user with an opportunity to define parental control criteria.

FIG. 55 shows an illustrative program guide
15 display screen for providing a user with an opportunity
to turn off the bypass of parental control locks.

FIGS. 56-65 show illustrative overlays for requiring a user to enter a parental control code to access features of the program guide.

FIG. 66 shows an illustrative overlay for providing a user with an opportunity to lock by example.

FIG. 67 shows an illustrative overlay that the program guide may display when a user has locked a 25 maximum number of program titles.

FIG. 68 shows an illustrative overlay for indicating to a user that a program is locked and for prompting the user for a parental control code.

FIGS. 69-76 show illustrative program guide 30 display screens for providing a user with access to programming, pay-per-view, package, channel, and digital music information. FIGS. 77a and 77b show illustrative phone ordering information overlays.

FIGS. 78-93 show illustrative program guide display screens for providing a user with access to program guide pay-per-view program and package ordering functionality.

FIGS. 94-102 show illustrative program guide display screens for providing a user with access to program guide reminder functionality.

10 FIG. 103 shows an illustrative program guide display screen for providing a user with access to inband messages provided by the system operator.

FIG. 104 shows an illustrative program guide display screen for providing a user with access to help information.

FIGS. 105 and 106 show illustrative banners or overlays for indicating to a user that the program guide has been deactivated by a main facility or other interested entity.

20 FIGS. 107 and 108 are flowcharts of illustrative steps involved in operating the program guide of the present invention.

Detailed Description of the Preferred Embodiments

An illustrative system 10 in accordance with
25 the principles of the present invention is shown in
FIG. 1. Main facility 12 provides program guide data
from program guide data source 14 to interactive
television program guide equipment 17 via
communications link 18. There may be multiple program
30 guide data sources but only one has been shown to avoid
overcomplicating the drawing. If desired, program
guide data sources may be located at facilities

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separate from main facility 12, such as at local information services 15, and have their data provided to main facility 12 for localization and distribution. Data sources 14 may be any suitable computer or 5 computer based system for obtaining data (e.g., manually from an operator, electronically via a computer network or other connection, or via storage media) and putting the data into electronic form for distribution by main facility 12. Link 18 may be a satellite link, a telephone network link, a cable or fiber optic link, a microwave link, an Internet link, a combination of such links, or any other suitable communications link. Video signals may also be transmitted over link 18 if desired.

Local information service 15 may be any 15 suitable facility for obtaining data particular to a localized region and providing the data to main facility 12 over communications link 41. Local information source 41 may be, for example, a local 20 weather station that measures weather data, a local newspaper that obtains local high school and college sporting information, or any other suitable provider of information. Local information source 15 may be a local business with a computer for providing main 25 facility 12 with, for example, local ski reports, fishing conditions, menus, etc., or any other suitable provider of information. Link 41 may be a satellite link, a telephone network link, a cable or fiber optic link, a microwave link, an Internet link, a combination 30 of such links, or any other suitable communications link.

The program guide data transmitted by main facility 12 to interactive television program guide

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equipment 17 may include television programming data (e.g., program identifiers, times, channels, titles, and descriptions) and other data for services other than television program listings (e.g., help text, pay-5 per-view information, weather information, sports information, music channel information, associated Internet web links, associated software, etc.). There are preferably numerous pieces or installations of interactive television program guide equipment 17, 10 although only one is shown in FIG. 1 to avoid overcomplicating the drawing.

Program guide data may be transmitted by main facility 12 to interactive television program guide equipment 17 using any suitable approach. Data files 15 may, for example, be encapsulated as objects and transmitted using a suitable Internet based addressing scheme and protocol stack (e.g., a stack which uses the user datagram protocol (UDP) and Internet protocol (IP)). Systems in which program guide data is 20 transmitted from a main facility to television distribution facilities are described, for example, in Gollahon et al. U.S. patent application Serial No. 09/332,624, filed June 11, 1999, which is hereby incorporated by reference herein in its entirety.

An interactive television program guide is implemented on interactive television program guide equipment 17. Four illustrative arrangements for interactive television program guide equipment 17 are shown in FIGS. 2a-2d. As shown, interactive television 30 program guide equipment 17 may include program guide distribution equipment 21 located at television

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distribution facility 16, and user television equipment 22.

The interactive television program guide may run totally on user television equipment 22 as shown in FIGS. 2a and 2c, or may run partially on user television equipment 22 and partially on interactive television program guide equipment 17 using a suitable client-server or distributed processing approach as shown in FIGS. 2b and 2d. Television distribution 10 facility 16 may be any suitable distribution facility (e.g., a cable system headend, a broadcast distribution facility, or any other suitable type of television distribution facility). Television distribution facility 16 may have distribution equipment 21.

Distribution equipment 21 of FIGS. 2a, 2b, 2c, and 2d may be any equipment suitable for providing program guide data to user television equipment 22 over communications path 20. Distribution equipment 21 may 20 include, for example, suitable transmission hardware for distributing program guide data on a television channel sideband, in the vertical blanking interval of a television channel, using an in-band digital signal, using an out-of-band digital signal, or by any other 25 suitable data transmission technique. Analog or digital video signals (e.g., television programs) may also be distributed by distribution equipment 21 to user television equipment 22 over communications paths 20 on multiple television channels.

Communications paths 20 may be any communications paths suitable for distributing program guide data. Communications paths 20 may include, for example, a satellite link, a telephone network link, a

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cable or fiber optic link, a microwave link, an Internet link, a data-over-cable service interface specification (DOCSIS) link, a combination of such links, or any other suitable communications link.

5 Communications paths 20 preferably have sufficient bandwidth to allow television distribution facility 16 to distribute television programming to user television equipment 22. There are typically multiple pieces of user television equipment 22 and multiple associated communications paths 20, although only one piece of user television equipment 22 and communications path 20 are shown in FIGS. 2a-2d to avoid over complicating the drawings. If desired, television programming may be provided over separate communications paths (not shown).

FIG. 2b shows an illustrative arrangement for interactive television program guide equipment 17 in a client-server based or distributed interactive program guide system. As shown in FIG. 2b, distribution

20 equipment 21 may include program guide server 25.

Program guide server 25 may be any suitable software, hardware, or combination thereof for providing a client-server based program guide. Program guide server 25 may, for example, run a suitable database engine (e.g., SQL Server by Microsoft) and provide program guide data in response to queries generated by a program guide client implemented on user television equipment 22. If desired, program guide server 25 may be located at main facility 12 (not shown).

The program guide may retrieve program guide data from program guide server 25 using any suitable client-server based approach. The program guide may, for example, pass SQL requests as messages to program

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guide server 25. In another suitable approach, the program guide may invoke remote procedures that reside on program guide server 25 using one or more remote procedure calls. Program guide server 25 may execute 5 SQL statements for such invoked remote procedures. In still another suitable approach, client objects executed by the program guide may communicate with server objects executed by program guide server 25 using, for example, an object request broker (ORB).

10 This may involve using, for example, Microsoft's

10 This may involve using, for example, Microsoft's Distributed Component Object Model (DCOM) approach.

The program guide may communicate with program guide server 25 or Internet service system 61 over communications path 20 using any suitable network and transport layer protocols, if desired. A protocol stack may be used which includes, for example, Sequenced Packet Exchange/Internetwork Packet Exchange (SPX/IPX) layers, Transmission Control Protocol/Internet Protocol (TCP/IP) layers, AppleTalk Transaction Protocol/Datagram Delivery Protocol (ATP/DDP) layers, or any other suitable network and transport layer protocols. If desired DOCSIS may also be used.

FIGS. 2c and 2d show illustrative Internet
25 based interactive television program guide systems.
Television distribution facility 16 may, for example,
include Internet service system 61. Internet service
system 61 may use any suitable combination of hardware
and software capable of providing program guide data to
30 the guide using an Internet based approach (e.g., the
HyperText Transfer Protocol (HTTP)). If desired,
Internet service system 61 may be located at a

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facility that is separate from program guide distribution facility 16.

If the program guide is implemented on user television equipment 22 of interactive television 5 program guide equipment 17 as shown in FIG. 2c. Internet service system 61 (or other suitable equipment at program guide distribution facility 16 that is connected to Internet service system 61) may provide program guide data to user television equipment 22 via 10 the Internet, or via program guide distribution equipment 21 using any suitable Internet-based approach (e.g., using the HyperText Transfer Protocol (HTTP) or File Transfer Protocol (FTP) over a Transmission Control Protocol/Internet Protocol (TCP/IP) type link). 15 If the program guide implemented on interactive television program guide equipment 17 is a clientserver guide as shown in FIG. 2d, program guide server 25 may obtain program guide data from Internet service system 61. The program guide may also, however, obtain 20 program guide data from Internet service system 61 via an Internet connection.

In still another embodiment, distribution equipment 21 may include suitable hardware (not shown) on which a first portion or version of the interactive television program guide is implemented. A second portion or version of the program guide may be implemented on user television equipment 22. The two versions or portions of the interactive program guide may communicate using any suitable peer-to-peer communications scheme (e.g., messaging, remote procedure calls, etc.) and perform interactive program guide functions distributively between television

distribution facility 16 and user television equipment 22.

An illustrative arrangement for user television equipment 22 is shown in FIG. 3. User television equipment 22 of FIG. 3 receives video or a digital video stream and data from television distribution facility 16 (FIG. 1) at input 26. During normal television viewing, a user tunes set-top box 28 to a desired television channel. The signal for that television channel is then provided at video output 30. The signal supplied at output 30 is typically either a radio-frequency (RF) signal on a predefined channel (e.g., channel 3 or 4), or a analog demodulated video signal, but may also be a digital signal provided to television 36 on an appropriate digital bus (e.g., a

bus using the Institute of Electrical and Electronics Engineers (IEEE) 1394 standard, (not shown)). The video signal at output 30 is received by optional secondary storage device 32.

The interactive television program guide may
20 run on set-top box 28, on television 36 (if television
36 has suitable processing circuitry and memory), on a
suitable analog or digital receiver connected to
television 36, or on digital storage device 31 if
digital storage device 31 has suitable processing
25 circuitry and memory. The interactive television
program guide may also run cooperatively on a suitable
combination of these devices. Interactive television
application systems in which a cooperative interactive
television program guide application runs on multiple
30 devices are described, for example, in Ellis U.S.
patent application Serial No. 09/186,598, filed
November 5, 1998, which is hereby incorporated by
reference herein in its entirety.

Secondary storage device 32 can be any suitable type of analog or digital program storage device or player (e.g., a videocassette recorder, a digital versatile disc (DVD) player, etc.). Program 5 recording and other features may be controlled by set-top box 28 using control path 34. If secondary storage device 32 is a videocassette recorder, for example, a typical control path 34 involves the use of an infrared transmitter coupled to the infrared 10 receiver in the videocassette recorder that normally accepts commands from a remote control such as remote control 40. Remote control 40 may be used to control set-top box 28, secondary storage device 32, and television 36.

If desired, a user may record programs, program guide data, or a combination thereof in digital form on optional digital storage device 31. Digital storage device 31 may be a writeable optical storage device (such as a DVD player capable of handling recordable DVD discs), a magnetic storage device (such as a disk drive or digital tape), or any other digital storage device. Interactive television program guide systems that have digital storage devices are described, for example, in Hassell et al. U.S. patent application Serial No. 09/157,256, filed September 17, 1998, which is hereby incorporated by reference herein in its entirety.

Digital storage device 31 can be contained in set-top box 28 or it can be an external device

30 connected to set-top box 28 via an output port and appropriate interface. Digital storage device 31 may, for example, be contained in local media server 29. If necessary, processing circuitry in set-top box 28

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formats the received video, audio and data signals into a digital file format. Preferably, the file format is an open file format such as the Moving Picture Experts Group (MPEG) MPEG-2 standard or the Moving Joint

5 Photographic Experts Group (MJPEG) standard. The resulting data is streamed to digital storage device 31 via an appropriate bus (e.g., a bus using the Institute Electrical and Electronics Engineers (IEEE) 1394 standard), and is stored on digital storage device 31.

10 In another suitable approach, an MPEG-2 data stream or series of files may be received from distribution equipment 21 and stored.

Television 36 receives video signals from secondary storage device 32 via communications path 38. 15 The video signals on communications path 38 may either be generated by secondary storage device 32 when playing back a prerecorded storage medium (e.g., a videocassette or a recordable digital video disc), by digital storage device 31 when playing back a pre-20 recorded digital medium, may be passed through from set-top box 28, may be provided directly to television 36 from set-top box 28 if secondary storage device 32 is not included in user television equipment 22, or may be received directly by television 36. During normal 25 television viewing, the video signals provided to television 36 correspond to the desired channel to which a user has tuned with set-top box 28. Video signals may also be provided to television 36 by settop box 28 when set-top box 28 is used to play back 30 information stored on digital storage device 31.

Set-top box 28 may have memory 44. Memory 44 may be any memory or other storage device, such as a random access memory (RAM), read only memory (ROM),

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flash memory, a hard disk drive, a combination of such devices, etc., that is suitable for storing program guide application instructions and program guide data for use by the program guide.

Set-top box 28 may have communications device 37 for communicating directly with program guide server 25 or Internet service system 61 over communications path 20. Communications device 37 may be a modem (e.g., any suitable analog or digital 10 standard, cellular, or cable modem), network interface card (e.g., an Ethernet card, Token ring card, etc.), or other suitable communications device. Communications device 37 may also be a personal computer with an Internet connection in, for example, 15 the arrangement shown in FIGS. 2c and 2d. Television 36 may also have such a suitable communications device if desired. In an alternative approach, user television equipment 22 may communicate with Internet service system 61 via distribution equipment 21 using a 20 suitable return path.

A more generalized embodiment of user television equipment 22 of FIG. 3 is shown in FIG. 4. As shown in FIG. 4, program guide data from television distribution facility 16 (FIG. 1) is received by control circuitry 42 of user television equipment 22. The functions of control circuitry 42 may be provided using the set-top box arrangement of FIGS. 2a and 2b. Alternatively, these functions may be integrated into an advanced television receiver, personal computer television (PC/TV), or any other suitable arrangement. If desired, a combination of such arrangements may be

used.

User television equipment 22 may also have secondary storage device 47 and digital storage device 49 for recording programming. Secondary storage device 47 can be any suitable type of analog or digital 5 program storage device (e.g., a videocassette recorder, a digital versatile disc (DVD), etc.). Program recording and other features may be controlled by control circuitry 42. Digital storage device 49 may be, for example, a writeable optical storage device 10 (such as a DVD player capable of handling recordable DVD discs), a magnetic storage device (such as a disk drive or digital tape), or any other digital storage device.

User television equipment 22 may also have

15 memory 63. Memory 63 may be any memory or other
storage device, such as a random access memory (RAM),
read only memory (ROM), flash memory, a hard disk
drive, a combination of such devices, etc., that is
suitable for storing program guide application

20 instructions and program guide data for use by control
circuitry 42.

User television equipment 22 of FIG. 4 may also have communications device 51 for supporting communications between the program guide and 25 distribution equipment 21 or Internet service system 61 via communications path 20. Communications device 51 may be a modem (e.g., any suitable analog or digital standard, cellular, or cable modem), network interface card (e.g., an Ethernet card, Token ring card, etc.), 30 or other suitable communications device.

A user controls the operation of user television equipment 22 with user interface 46. User interface 46 may be a pointing device, wireless remote

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control, keyboard, touch-pad, voice recognition system, or any other suitable user input device. To watch television, a user instructs control circuitry 42 to display a desired television channel on display device 45. Display device 45 may be any suitable television, monitor, or other suitable display device. To access the functions of the program guide, a user instructs the program guide implemented on interactive television program guide equipment 17 to generate a main menu or other desired program guide display screen for display on display device 45.

The program guide may, for example, provide a user with an opportunity to view program listings while watching a television program. In response to a user 15 indicating a desire to view program listings while watching a program, the program guide may overlay a "FLIP" or "BROWSE" overlays over a television program. FIGS. 5a and 5b show illustrative FLIP overlays 200 and 207 the program guide may display whenever a user 20 changes television channels. This feature may provide a user with information on the television program that is being displayed by the new channel. FLIP overlays 200 and 207 may be displayed for a predefined period of time, or for a user configurable period of time, if 25 desired. The FLIP overlay may instantaneously disappear, may slide downward off of the screen, or may be removed from the screen using any other suitable approach.

FLIP overlays 200 and 207 may display
30 information associated with the current program, such
as the program title 210, run time 215, rating 227, the
current channel number 216, and the current channel's
call letters 225. The FLIP overlays may also include a

number of graphics, such as brand logo 230, a sponsorship graphic, a channel logo graphic, mail indicator, reminder indicator or any other suitable graphic. The current time may also be displayed. If desired, brand logo 230 may be replaced by or displayed together with selectable advertisement 221. A user may select selectable advertisement 221 to obtain additional program information for the program currently displayed in FLIP overlays 200 and 210.

"BROWSE" overlays 230 that the program guide may display when a user opts to browse through program listings for a given time slot while watching a program. A user may browse through program listings by, for example, using remote control arrow keys.

Unlike the FLIP overlay, the BROWSE overlay allows a user to continue to watch a program on a particular channel (e.g., channel 178) while browsing for information on programs that are playing on other channels and at other times.

The program guide may provide a user with an opportunity to change time slots and channels in order to browse through additional program listings. A user may indicate a desire to browse through additional program listings by, for example, pressing "up", "down", "left", and "right" arrows to access additional channels and time slots. The program guide may, for example, highlight an on-screen arrow 232 to indicate to a user that a particular arrow has been pressed.

This aspect of the invention may be performed in any display screen in which an arrow is used to indicate to a user an available action.

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If desired, FLIP and BROWSE overlays may indicate to a user that a user has flagged a channel as a favorite. Favorite channels may be indicated using any suitable technique. A specific color, such as sky-blue, may be used. FIG. 6b shows the use of shading 235 to denote that a channel has been selected as a favorite in BROWSE overlay 237. FIG. 6c shows a further illustrative embodiment of BROWSE overlay 237.

FLIP and BROWSE overlays may also include

10 selectable advertisements, such as selectable
advertisements 221. Selectable advertisements 221 may,
for example, include text and graphics advertising the
program being played or other television programs,
channels, or products. When a user selects a

15 selectable advertisement 221, the program guide may
display information (e.g., pay-per-view information) or
take other actions related to the content of the
advertisement.

FIG. 7 shows an illustrative music flip
20 overlay 240 that the program guide may generate for
display in response to a user changing channels to a
digital music channel. Music flip overlay 240 may be
displayed, for example, over a black background or over
a graphic if desired. The current artist and title
25 playing may be displayed along with the category of
music played on the channel.

Music information regarding the currently playing selection may be transmitted with the rest of the program guide data provided by main facility 12 to television distribution facility 16, or may be part of an in-band data stream provided by a third party over the digital music channel. If desired, music flip overlay 240 may be used as a BROWSE overlay when, for

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example, a user indicates a desire to browse through music program listings for other music channels. To provide a user with an opportunity to BROWSE through music program listings for other channels, set-top box 28 of user television equipment 22 may require two-tuners; one for playing the music from one channel while in-band data is retrieved from another for display in a BROWSE overlay. Program guides that provide users with an opportunity to browse music 10 program listings using multiple tuners are described, for example, in Ellis U.S. patent application Serial No. 09/330,860, filed June 11, 1999, which is hereby incorporated by reference herein in its entirety.

As the program on a music channel changes, 15 the program guide may display music information about the new program, such as the title, track, and artist information. The program guide may also display this information when, for example, a user presses an "info" key on remote control 40. An illustrative music 20 information screen is shown in FIG 8. The music information screen of FIG. 8 may display one or more selectable advertisements 245. Selectable advertisements 245 may, for example, include text and graphics advertising the music being played or other 25 television programs or products. When a user selects a selectable advertisement 245, the program guide may display information (e.g., pay-per-view information) or take other actions related to the content of the advertisement.

30 Some program guide display screens may display FLIP or BROWSE style overlays or banners that include logo advertisements (such as logo advertisement

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230). The logo advertisements may change within the same overlay or banner if a user displays the overlay or banner for a defined time. The logo advertisement may, for example, rotate through a list of logo advertisements, returning to the first advertisement after each advertisement in the list has been displayed.

The FLIP and BROWSE overlays of FIGS. 5, 6a, 6b, 6c, and 7 have been shown as including a brand logo advertisement 230 displayed at the left of the overlay. The logo may also, for example, promote different sponsors as a user browses program listings or flips between channels. The logos may change within the same overlay or banner if a user displays the overlay or banner for a predefined time. The logo may, for example, automatically rotate through a list of logo advertisements, returning to the first advertisement after each advertisement in the list has been displayed. The brand logo may also be replaced by a 20 text based advertisement.

The logo may change position as it is displayed if desired. The logo may, for example, initially appear at the side of the overlay. After a predefined period (e.g., six seconds), the logo may slide off the top of the overlay and pull the mail indicator and time indicator to the upper right of the display.

The program guide may provide users with an opportunity to access other program guide features

through a main menu. A main menu screen, such as illustrative main menu screen 100 of FIG. 9, may include menu 102 of selectable program guide features

106. If desired, program guide features 106 may be

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organized according to feature type. In menu 102, for example, program guide features 106 have been organized into three columns. The column labeled "TV GUIDE" is for listings related features, the column labeled "MSO SHOWCASE" is for multiple service organization (MSO) related features, and the column labeled "VIEWER SERVICES" is for viewer related features. The interactive television program guide may generate a display screen for a particular program guide feature when a user selects that feature from menu 102.

Main menu screen 100 may include one or more selectable advertisements 108. Selectable advertisements 108 may, for example, include text and graphics advertising pay-per-view programs or other programs, channels, or products. When a user selects a selectable advertisement 108, the program guide may display information (e.g., pay-per-view information) or take other actions related to the content of the advertisement. Pure text advertisements may be presented, if desired, as illustrated by selectable advertisement banner 110.

Main menu screen 100 may also include other screen elements. The brand of the program guide product may be indicated, for example, using a product brand logo graphic such as product brand logo graphic 112. The identity of the television service provider may be presented, for example, using a service provider logo graphic such as service provider logo graphic such as service provider logo graphic 114. The logos may be included in the program guide data allowing for on-the-fly configurability of the display screens. The current time may be displayed in clock display region 116. In addition, a suitable indicator such as indicator graphic 118 may be used to

indicate to a user that mail from a cable operator or program guide provider is waiting for a user if the program guide supports messaging functions.

The interactive television program guide may
provide a user with an opportunity to view television
program listings. A user may indicate a desire to view
program listings by, for example, positioning highlight
region 120 over a desired program guide feature 106.
Alternatively, the program guide may present program
listings when a user presses a suitable key (e.g., a
"guide" key) on remote control 40. When a user
indicates a desire to view television program listings,
the program guide generates an appropriate program
listings screen for display on display device 45

(FIG. 4). A program listings screen may contain one or
more groups or lists of program listings organized

more groups or lists of program listings organized according to one or more organization criteria (e.g., by time, by channel, by program category, etc.).

Program listings screens may be overlaid on a

program being viewed by a user or overlaid on a portion of the program in a "browse" mode. The program guide may, for example, provide a user with an opportunity to view listings by time, by channel, according to a number of categories (e.g., movies, sports, children, etc.), or may allow a user to search for a listing by title. Program listings may be displayed using any suitable list, table, grid, or other suitable display arrangement. If desired, program listings screens may include selectable advertisements, product brand logo graphics, service provider brand graphics, clocks, or any other suitable indicator or graphic.

A user may indicate a desire to view program listings by time, channel, or category by, for example,

desired.

selecting a selectable feature 106 from menu 102. In response, the program guide may display program listings in a suitable program listings screen. FIG. 10 illustrates the display of program listings by 5 time. Program listings screen 130 of FIG. 10 may include highlight region 151, which highlights the current program listing 150. A user may position highlight region 151 by entering appropriate commands with user interface 46. For example, if user interface 10 46 has a keypad, a user can position highlight region 151 using "up" and "down" arrow keys on remote control 40. A user may select a listing by, for example, pressing on the "OK" or "info" key on remote control 40. Alternatively, a touch sensitive screen, 15 trackball, voice recognition device, or other suitable device may be used to move highlight region 151 or to select program listings without the use of highlight region 151. In still another approach, a user may speak a television program listing into a voice request 20 recognition system. These methods of selecting program listings are merely illustrative. Any other suitable approach for selecting program listings may be used if

A user may view additional listings for the
time slot indicated in timebar 111 by, for example,
pressing an "up" or "down" arrow, or a "page up" or
"page down" key on remote control 40. The user may
also see listings for the next 24 hour period, or the
last 24 hour period, by pressing a "day forward" or
"day backward" key on remote control 40, respectively.
If there are no listings starting exactly 24 hours in
the indicated direction, the program guide may pick
programs starting at either closer or further than 24

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hours away. If desired, the program guide may require a user to scroll through advertisement banner 110. A user may view program listings for other time slots by, for example, pressing "right" and "left" arrows on remote control 40, or by scrolling up or down until listings for the next time slot are displayed. Timebar 111 may change its display to the previous or next time slot accordingly.

program listings by channel. A user may scroll up and down to view program listings for additional time slots, and may scroll left and right to view program listings for other channels. In listings by channel screen 140 of FIG. 11a, each program is listed with its air time and day. If desired, the day for which program listings are displayed may be included in display area 147 with the channel number as shown in FIG. 11b. Preferably, the day displayed corresponds to the day of the program associated with the first displayed listing.

The program guide may display a clear demarcation of programs starting at or near the same time. For example, separator 149 may be displayed to indicate when a user scrolls or pages from one day's listings to the next. FIG. 11b also illustrates how the program guide may display an advertisement banner so that a user is required to scroll past the banner to access additional program listings. If desired, a listings by channel screen may indicate that a channel is set as a favorite by, for example, displaying the channel number in a pre-defined color such as sky blue (not shown).

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The program guide may provide users with an opportunity to view program listings sorted by category. A user may, for example, press a special category key on remote control 40 (e.g., "movies", "sports", "children", etc.), select a selectable category feature from main menu screen 100 (FIG. 9), or may indicate a desire to view program listings by category using any other suitable approach. FIG. 12a is an illustrative program listings screen in which program listings for movies are displayed. FIG. 12b is an illustrative program listings screen in which program listings for sports-related programming are displayed. FIG. 12c is an illustrative program listings screen in which program listings screen in which program listings screen in which program listings for children's' programs are displayed.

A further example of a program listings by category screen is shown in FIG. 12d. The illustrative screen of FIG. 12d includes program listings for sports, but the screen of FIG. 12d may be used to 20 display program listings for any suitable category. The program listings by category screen of FIG. 12d shows an alternative way in which program listings may be displayed and navigated through for any display screen in which listings are displayed for multiple 25 time slots (e.g., FIGS. 10, 11a, 11b, 12a, 12b, and 12c.) Program listings within list 129 may be divided into predefined time slots, such as into 30 minute time slots. Users may quickly change between time slots by, for example, pressing a "right" or "left" arrows on 30 remote control 40. Between each time slot, separator 128 may be displayed to indicate to a user that a user has scrolled or paged program listings from one time slot to the next. In FIG. 12d, for example, a user is

scrolling from program listings for sports in the 12:30 PM time slot to program listings for sports in the 1:00 PM time slot. When the user scrolls within listings, highlight region 151 may skip separator 128. FIG. 12d 5 also illustrates how the program guide may display an advertisement banner so that a user is required to scroll past the banner to access additional program listings. FIG. 12e shows an illustrative program listings by category screen for adult programs. If 10 desired, separators 128 may be displayed only for those timeslots for which there are listings. In this example, there are no adult programs starting at 1:00 PM or 1:30 PM. If desired, there may be a watch previews selectable feature that users may select to 15 view a preview for a highlighted listing. Users may also view additional information for a listing by, for example, highlighting the listing and pressing an "info" key on remote control 40.

In the program listings screens of FIGS. 1020 12e, program listing may be displayed within each time slot sorted in any suitable manner. Listings may be displayed, for example, by title, channel, start time, or using any other suitable approach. The program listings screens of FIGS. 10, 11a, 11b, 12a, 12b, 12c, 12d, and 12e have also been shown as including various other screen elements. Program listings display screens may include, for example, selectable advertisements, advertisement banners, brand logos, service provider logos, clocks, message indicators, arrow indicators 913, or any other suitable screen element. The program guide may provide users with access to selectable advertisements in response to, for example, a user arrowing left to move highlight region

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151 to highlight a selectable advertisement. Pressing left, right, up, or down arrows in the listings screens of FIGS. 10-12e, or any other suitable display screen, may cause the guide to temporarily change the display characteristics, (e.g. highlight, bold, enlarge, change its color, etc.) of an on-screen arrow, such as arrows 913. In the illustrative program listings screens of FIGS. 11b, 12d and 12e, the program guide may also adjust the time displayed in timebar 123 as the user scrolls or pages through program listings to reflect the time of the program listing at the top of the list.

The program guide may also provide users with an opportunity to set reminders for programs and to parentally control programs. The program listings

15 screens of FIGS. 10, 11a-11c, and 12a-12e illustrate, for example, the display of reminder indicator 155 and parental lock 161 to indicate to a user that a program has a reminder set or that a program is parentally locked, respectively. The ratings of the programs may also be indicated by, for example, displaying rating indicators 159. Duration arrows 153 and 157 may be displayed to indicate if programs started before or finish after a time block.

The program guide may provide users with an opportunity to textually search for particular program listings. The program guide may display a search screen in response to a user indicating a desire to textually search through program listings by, for example, pressing a suitable key on remote control 40 (e.g., a "search" key), or selecting a selectable search feature 106 from main menu 102 (FIG. 9). Illustrative search screens are shown in FIGS. 13a-13c.

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As shown in FIGS. 13a-13c, the program guide may prompt a user to enter up to a predefined number of letters into entry boxes 149 (in this example up to five letters). A user may enter a letter in each entry box 149 by, for example, using "up" and "down" arrow keys on remote control 40 to scroll through the alphabet. To enter an additional letter, a user may, for example, press a "right" arrow on remote control 40. The program guide may highlight an appropriate onscreen arrow 153 to indicate to a user the arrow that a user has pressed.

In the example shown in FIG. 13b, a user has selected the letter "O" as the first letter of the program listing that is being searched for and has been 15 prompted for an additional letter. After a user enters each letter, the program guide may search through available program listings and display the program listings starting with first letters that match the letters that a user has entered. In this example, the 20 program guide has displayed listings beginning with the letters "Oa". In practice, it may be desirable for only one listing of a program to be displayed even though it may have multiple showings. Otherwise, a user may be presented with a screen full of listings 25 with the same title. The program guide may, therefore, display multiple airings of the same program using one listing.

When a user is finished entering letters, a user may indicate a desire to scroll through listings

30 by, for example, pressing an "OK" or "enter" key on remote control 40. In response, the program guide may display a full screen of listings as shown in FIG. 13c. From within a screen such as that shown in FIG. 13c, a

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user may select a selectable advertisement by, for example, pressing a "left" arrow key on remote control 40 to select a selectable advertisement. A user may page or scroll through listings by, for example, pressing suitable keys on remote control 40 (e.g., "page up", "page down", "up" arrow, "down" arrow, etc.).

A user may indicate a desire to view additional information about a particular program, such as all of the times a program airs, by selecting its listing and pressing "OK" or "info" on remote control 40. The program guide may respond by displaying a program information screen in which a user is provided with the opportunity to view the air times for a program and to view other suitable information (e.g., the title, a brief description, rating information, actor information, etc.). The guide may allow a user to perform other functions from within the screen, such as setting a reminder, setting a lock, ordering a program, or any other suitable function.

The program guide of the present invention may download program guide data continuously, periodically, using a client-server based approach, via the Internet, or using any other suitable approach.

25 There may be instances, however, when downloading program guide data may take long enough for users to experience a wait. The program guide may, if desired, display a default screen indicating that the program guide is downloading data. An illustrative default screen 180 that the program guide may display, for example, when there are no program listings, is shown in FIG. 14. Default screen 180 may also be displayed generally when a user indicates a desire to view a

listings screen for which there is no matching data (e.g., when there are no movies listings for a movies listings screen).

The interactive program guide may provide

5 users with access to a passive program guide channel
(e.g. the TV Guide Channel) so that a user is provided
with a guide and television viewing experience that
combines the features of both a passive and an
interactive guide. Systems in which interactive guides

10 are overlaid on passive program guide channels are
described, for example, in Marshall et al. U.S. patent
application Serial No. 08/225,246, filed April 8, 1994,
which is hereby incorporated by reference herein in its
entirety. Illustrative hybrid passive/interactive

15 display screens are shown in FIGS. 15-16.

As shown in FIG. 15, for example, the top portion of the display screen may contain the video that is provided as part of a passive television program guide channel that a user has tuned to. The 20 bottom portion of the screen may, for example, display program listings that have been generated by the interactive program guide. The video of the passive television program guide channel may be sized to fit in the top portion of the screen, or, the television program listings portion of the screen may be overlaid onto a full screen video.

The passive portion of FIGS. 15 and 16 may include promotional videos. Promotional videos may promote programs, channels, services, goods, or any other suitable subject matter. In practice, it may be desirable to have promotions distributed to users so as to attempt to maximize their effectiveness. Promotions may be selected for distribution by television

distribution facility 16 according, for example, to promotional philosophies. Promotional philosophies are selection algorithms that attempt to maximize the effectiveness of promotions by selecting them for distribution during times for which expected audiences will view the promotions.

For example, when promotions are selected for distribution on a national basis, some promotions may not be apropos for a given area at a given time. It would therefore be desirable to "play something better", i.e., play a promotion that is more suitable for the expected audience than the promotion selected on a national basis. Promotional philosophies may be used to effect this. Systems in which promotional philosophies may be used to "play something better" are described, for example, in Kern et al. U.S. patent application Serial No. 09/332,448, filed June 11, 1999, which is hereby incorporated by reference herein in its entirety.

An operator at main facility 12 may, for example, generate one or more promotional philosophy templates that are used by main facility 12 to generate a national play list of promotional events. The promotional philosophy templates and national playlist 25 may be provided to television distribution facility 16 as part of the program guide data.

Television distribution facility 16 may generate a local playlist of promotional events according to the promotional philosophy templates and 30 the local database. If the promotional events scheduled by the national playlist are unavailable or undesirable to a television distribution facility, the local playlist may schedule store-and-forward

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promotional material instead of a national promotional video. The television distribution facilities generate program guide display screens with the promotional material, national promotional videos, and program 5 guide data according to the local playlist. The display screens are distributed to users for viewing on their televisions.

The program guide may display the portion of the display screen with the program listings in two

10 modes: a passive mode and an interactive mode. When displaying listings in the passive mode, the program guide may display television program listings in pages that automatically change periodically at a user configurable rate, as shown in FIG. 15. The listings

15 may also scroll, rather than page, and may be displayed in any suitable format, such as a grid or list.

In the interactive mode (FIG. 16), the program listings are displayed and the program guide may provide a user with an opportunity to navigate

20 through the listings by, for example, using arrow keys on a remote control. The program guide may display the listings in the interactive mode in response to a user command to do so. For example, a user may press a suitable key on remote control 40, such as an "OK" or 25 arrow key, while viewing listings in the passive mode. The program guide may return to the passive mode from the interactive mode after a period of time during which the program guide has not received commands from a user (e.g., five minutes).

The program guide portions of the screens of FIGS. 15-16 may also indicate the rating of a program and whether a program is locked by displaying rating indicators 159 or parental lock indicators 161,

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respectively. The program guide may also indicate that a program has had a reminder set.

The program guide may also be configurable by a system operator that operates television distribution 5 facility 16, such as a multiple system operator (MSO). The program guide may provide users with an opportunity to access MSO provided services through, for example, a Illustrative main menu screen 100 of main menu screen. FIG. 9 has been redrawn in FIG. 17 to illustrate that a 10 user has moved highlight region 120 to the MSO showcase column of menu 102. MSO provided services may include, for example, access to pay-per-view (PPV) program listings, ordering of pay-per-view programs and packages, listing and ordering sporting events or other 15 sports related programing, listing and ordering special offers, access to music channels, listing and ordering adult programs, or any other suitable service that may be provided by an MSO. Interactive television program guide systems that provide a configurable operator 20 showcase are described, for example, in Ellis et al. U.S. patent application Serial No. 08/944,162, filed October 6, 1997, which is hereby incorporated by reference herein in its entirety.

A user may, for example, indicate a desire to view listings for pay-per-view programs by selecting the "PPV Time" on-screen option. In response, the program guide may display pay-per-view program listings by time, as is illustrated by pay-per-view listings by time screens 201 and 203 of FIGS. 18 and 19. As with other listings screens, a user may scroll up and down to view pay-per-view program listings for additional channels. In response to a user selecting a pay-per-view program listing, the program guide may, for

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example, display an additional information screen for the selected pay-per-view, such as shown in FIG. 72. The additional information screen may, for example, display additional air-times for the pay-per-view and provide the user with an opportunity to order it. A user may watch previews by, for example, selecting watch preview feature 191.

In pay-per-view program listings by time screen 201 of FIG. 18, a user may view program listings 10 for additional time slots by arrowing right. A user may also, for example, select selectable advertisements by arrowing to the left. If desired, however, pay-perview program listings may be divided into predefined time slots (e.g., 30 minutes). As shown in the pay-15 per-view programs by time screen 203 of FIG. 19, the program guide may display separator 207 to indicate to a user that a user has scrolled or paged between time When the user scrolls within pay-per-view program listings, highlight region 209 may skip 20 separator 207. FIG. 19 also illustrates how the program guide may display an advertisement banner such that a user is required to scroll through an advertisement banner in order to access additional listings. The program guide may provide a user with an 25 opportunity to highlight a selectable advertisement by, for example, arrowing left. The program guide may also provide a user with an opportunity to watch previews by, for example, selecting watch previews feature 191.

The program guide may also provide a user 30 with an opportunity to view pay-per-view program listings by title. A user may indicate a desire to view pay-per-view program listings by title by, for example, selecting a "PPV Title" selectable feature

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from menu 102 of FIG. 17. In response, the program guide may display pay-per-view program listings by title as shown, for example, in pay-per-view program listings by title screen 211 of FIG. 20. If desired, an advertisement banner may be made part of the program listings as shown. In this approach, a user may be required to scroll through advertisement banner 110 to access additional program listings. The program guide may provide a user with an opportunity to highlight a selectable advertisement by, for example, arrowing left. The program guide may also provide a user with an opportunity to watch previews by, for example, selecting watch previews feature 191.

The program guide may also provide a user 15 with an opportunity to view listings for special events. A user may indicate a desire to view program listings for special events by, for example, selecting an "Events" selectable feature from menu 102 of FIG. 17. The program guide may respond by displaying 20 program listings for upcoming special events, for example, in special events program listings by title screen 221 of FIG. 21. If desired, a system operator may configure the guide to sort the events by time rather than by title. If desired, an advertisement 25 banner may be made part of the program listings as shown. In this approach, a user may be required to scroll through the advertisement banner to access additional program listings. The program guide may provide a user with an opportunity to select a 30 selectable advertisement by, for example, arrowing left. Users may also view additional information for an event by, for example, highlighting a listing and pressing an "info" key on remote control 40. In

30

response, the program guide may, for example, display an additional information screen that provides the user with an opportunity to view additional air-times for the event and order an airing of the event.

The program guide may also provide a user 5 with an opportunity to view a list of available premium services. A user may indicate a desire to view a list of available premium services by, for example, selecting a "Premium" selectable feature from menu 102 10 of FIG. 17. In another suitable embodiment, a user may select an "Offers" feature from menu 102 (not shown). When a user indicates a desire to view a list of available premium services, the program guide may display program listings for premium services as shown, 15 for example, in premium offers listings screen 231 of FIG. 22. If desired, an advertisement banner may be made part of the program listings. In this approach, a user may be required to scroll through the advertisement banner to access additional program 20 listings. The program guide may provide a user with an opportunity to highlight a selectable advertisement by, for example, arrowing left. When the user selects a listing, the program guide may display a channel information screen which may include a description of 25 the channel and may provide the user with an opportunity to watch the channel, get ordering information, lock the channel, see listings for the channel, set the channel as a favorite, or perform any other suitable action related to the channel.

The program guide may also provide a user with an opportunity to view music channel information for available music channels. Music channel information may include, for example, the channel, call

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letters, and music type of a music channel. A user may indicate a desire to view music channel information by, for example, selecting a "Music" selectable feature from menu 102 of FIG. 17 or press a "music" key on 5 remote control 40. When a user indicates a desire to view music channel information, the program guide may display a list of music channels as displayed in music channel listing screen 241 of FIG. 23. If desired, an advertisement banner may be made part of the program 10 listings as shown. In this approach, a user may be required to scroll through the advertisement banner to access additional program listings. The program guide may provide a user with an opportunity to highlight a selectable advertisement by, for example, arrowing 15 left. A user may select a listing to display a channel information screen for the selected music channel. Channel information screens, such as the music channel information screens of FIGS. 76a and 76b, may display a brief description of the music channel, provide a user 20 with an opportunity to listen to the music channel, to order the channel, to lock the channel, to set the channel as a favorite, or to perform any other suitable action.

The program guide may also provide a user

25 with an opportunity to view adult pay-per-view program
listings by title. A user may indicate a desire to
view adult program listings by, for example, selecting
an "Adult" selectable feature from menu 102 of FIG. 18.
In response, the program guide may display adult payper-view program listings for upcoming adult pay-perview programs, for example, in adult pay-per-view
program listings by time screen 251 of FIG. 24. A
system operator may configure the guide to display

program listings assorted by title, if desired. Ιf desired, an advertisement banner may be made part of the program listings. In this approach, a user may be required to scroll through the advertisement banner to 5 access additional program listings. The program guide may provide a user with an opportunity to highlight a selectable advertisement by, for example, arrowing The program guide may tune to a channel carrying previews when, for example, the user selects the watch 10 previews feature 191. In response to a user selecting an adult pay-per-view listing, the program guide may, for example, display an information screen for the listing, such as shown in FIG. 73. The information screen may, for example, display additional air times 15 for the adult pay-per-view, provide the user with an opportunity to order the pay-per-view, lock the payper-view, set a reminder for the pay-per-view, tune to the pay-per-view, or perform any other suitable function.

Some operators of television distribution facility 16 may offer their customers free previews of pay-per-view programs. The program guide may display an overlay indicating that what a user is currently watching is a free portion of a pay-per-view program.

25 An illustrative overlay 261 is shown in FIG. 25.

FIGS. 26-29 show illustrative informational overlays for providing a user with access to information on channels, services, and programs which have not been subscribed to by a user. The program guide may provide a user with an opportunity to obtain ordering information and to subscribe to a channel, service, or program by, for example, pressing an "OK" key on remote control 40. If desired, these screens

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may also include a product brand graphic, cable service provider graphic, a message or reminder graphic, or any other suitable graphic. These screens may include FLIP overlays as shown.

5 FIG. 26 shows an illustrative overlay 271 that the program guide may display when a user tunes to a channel that is broadcasting a pay-per-view program that a user has not ordered. A user may obtain ordering information by, for example, pressing an "OK" 10 key on remote control 40. In response the guide may display a pay-per-view information screen such as shown in FIG 72.

FIG. 27 shows an illustrative overlay 281 that the program guide may display when a user tunes to a subscription service, in this example a premium channel, to which a user has not subscribed. A user may obtain ordering information by, for example, pressing an "OK" key on remote control 40. In response, the program guide may display a channel information screen for the premium channel, such as the channel information screen shown in FIG. 75b.

FIG. 28 shows illustrative overlay 301 that the program guide may display when a user tunes to a subscription service, in this example a digital music channel, to which a user has not subscribed. A user may obtain ordering information by, for example, pressing an "OK" key on remote control 40. In response, the program guide may display a music channel information screen, for the music channel such as the music channel information screen shown in FIG. 76b.

FIG. 29 shows illustrative overlay 311 that the program guide may display when, for example, a user tunes to a channel with an in-band promotion. A user

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may obtain ordering information related to the pay-perview program indicated in a FLIP overlay by, for example, pressing an "OK" key on remote control 40.

5 display screens for providing a user with an opportunity to view ordering information for programs promoted by promotional channels. Promotional channels are channels that are dedicated to promoting television channels or television programming that meet a particular theme. Promotional channels typically promote pay-per-view programs, but may also promote, for example, comedies, adult programming, children's programming, movies, sports, premium channels, or any other suitable channel type or programming type. A programming system may carry one or more promotional channels.

When a user tunes or flips to a promotional channel, the program quide may recognize the channel as such and may display a suitable display screen such as 20 that shown in FIG. 30. The display screen may have two portions, a first portion that displays all or part of the real-time video displayed by the promotional channel, and a second portion that provides a user with an opportunity to obtain ordering information. 25 user indicates a desire to access ordering information, the program guide may respond by displaying a listings screen, such as those shown in FIGS. 18-24, that displays listings and provides a user with the opportunity to access ordering information for the 30 programming or channels promoted by the promotional channel. Each promotional channel may have different listings screens if desired.

that may be displayed by the program guide over a promotional channel that is tuned to by the guide when a user indicates a desire to watch a preview. Overlay 331 may be displayed, for example, after a user has selected a watch previews feature from the listings screens of FIGS. 12e, 19, 20 and 24, and the program guide has tuned to the appropriate promotional or payper-view channel. Overlay 331 may indicate to a user how to return to the listings screen from which a user selected the watch previews feature. Watch preview features may be displayed in the screens shown in FIGS. 21, 22 and 23, if desired.

The program guide may also provide a user

with an opportunity to access information services that have data configurable by main facility 12. Local information service 15 of FIG. 1, for example, may have its data localized by main facility 12 and sent to specific television distribution facilities 16, groups of television distribution facilities 16 (e.g., those only within a specific geographical area), specific users, groups of users (e.g., users within a specific geographical area), or other subsets of television distribution facilities 16 or viewers. Systems that localize program guide data are described, for example, in commonly assigned Ellis et al. U.S. patent No. 5,760,821, which is hereby incorporated by reference herein in its entirety.

In another suitable approach, for example,

localized data may have a mapping applied to it.

Multiple real-time sources of data, such as local information service 15 of FIG. 1, may provide data to main facility 12. Such data may be mapped to specific

television distribution facilities 16 so that the television distribution facilities 16 receive data that was supplied to main facility 12 by sources relevant to the television distribution facilities 16. Local information service 15 may also provide its data directly to television distribution facility 16. For example, weather data may be provided by a number of weather stations to main facility 12. The data may be

10 facilities 16 that service users in those areas.

Program guide systems in which multiple real-time data sources are described, for example, in Knudson et al.

U.S. patent application Serial No. 09/229,047, filed January 12, 1999, which is hereby incorporated by

15 reference herein in its entirety.

mapped to the specific television distribution

Main facility 12 may configure information service data for the program guide using any suitable approach. Main facility 12 may, for example, indicate through program guide data or commands to the program 20 guide what feature to present in menu 102 if data for a particular information service is not available (e.g., replace "Weather" option with a "Browse" option on main menu 102). Alternatively, this determination may be made by the program guide without commands or other 25 indicators from main facility 12. Main facility 12 may also provide feature names for display in main menu 102, the number of sub-selections within an information service, and their feature names. Main facility 12 may also provide advertisements displayed by the guide with 30 an information service, sub-selection, or groups of sub-selections. Main facility 12 may also provide information to be displayed within sub-selections of an

information service (e.g., formatted text, graphics, video, audio, or any suitable combination thereof).

Main menu screen 100 has been redrawn in FIG. 34 to illustrate how a user may navigate within main 5 menu 102 to access such services. FIG. 32 shows how the program guide may provide a user with access to local weather service data, but other services may be provided if desired (e.g., local events, local high school and college sports, school lunches, lottery 10 results, ski conditions, etc.) A user may indicate a desire to access a weather service by, for example, selecting a "Weather" feature from main menu 102. When a user indicates a desire to access a weather service, the program guide may display a weather information 15 services screen. An illustrative weather information services screen 351 is shown in FIG. 33a. If there are multiple information services, the program guide may provide a user with an opportunity to select other services by, for example, selecting an on-screen 20 feature. In FIG. 33b, for example, a user is presented with an opportunity to access two information services, local weather information and local events.

FIGS. 33c and 33d show an alternative format in which the program guide may display weather
25 information from a local weather service. The display of weather information for separate days, as opposed to displaying weather information for a number of days simultaneously as shown in FIG. 33b, may be configured, for example, by main facility 12. In
30 FIG. 33c, for example, a user has indicated a desire to see "today's" weather by selecting today feature 351. A user may view weather information for other days by selecting a different feature. In FIG. 33d, for

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example, a user has selected "FRI" feature 353. FIG 33e shows an illustrative display screen that may be displayed by the program guide in response to a user highlighting, for example, an "EXIT" feature 5 (FIG. 33e).

If desired, the weather information services screens of FIGS. 33a-33e may be formatted based on the country in which they are displayed. For example, they may display degrees Centigrade and kilometers-per-hour in some counties, and degrees Fahrenheit and miles-per-hour in others.

The program guide may provide a user with an opportunity to view and manage messages sent to a user from a cable service provider or guide provider. A

15 user may indicate a desire to view available messages by, for example, selecting a "Message" feature from main menu 102 of FIG. 32. When a user indicates a desire to view messages, the program guide may display a message listings screen, such as message listings

20 screen 361 of FIG. 34. If there are no messages, the program guide may display a suitable overlay such as overlay 371 shown in FIG. 36.

The program guide may provide a user with an opportunity to scroll or page through messages by, for example, pressing an "up" arrow, "down" arrow, "page up" key, "page down" key, or another suitable key, on remote control 40. If desired, an advertisement banner may be made part of the message listings. In this approach, a user may be required to scroll through the advertisement banner to access additional program listings. The program guide may also provide a user with an opportunity to highlight a selectable advertisement by, for example, arrowing left.

When a user selects a message, the program guide may display the selected message or a portion of it in a message screen such as illustrative message screen 362 of FIG. 35. Within message screen 362 the program guide may provide a user with an opportunity to scroll within a message, keep the message, or delete the message. A user may also be provided with an opportunity to highlight a selectable advertisement by, for example, arrowing left.

10 The program guide may provide a user with an opportunity to set channels as favorites. A user may indicate a desire to set a channel as a favorite using any suitable approach. A user may, for example, press a suitable key on remote control 40 (e.g., a "FAV" key)

15 while watching television, while in a BROWSE overlay, after highlighting a program listing, while within an information screen for the channel, or from within any other suitable program guide display screen in which channels or program listings are displayed. A user may also indicate a desire to set a channel as a favorite by selecting a "Favorites" feature from menu 102 of FIG. 32.

In response to a user selecting a "Favorites" feature from main menu 102 of FIG. 32, for example, the program guide may display a favorites screen, such as illustrative favorites screen 381 of FIG. 37.

Favorites screen 381 may list available channels according to user selected sorting criteria. A user may, for example, sort channels by number or name by pressing "left" and "right" arrow keys on remote control 40. In this example, a user has selected sorting by channel number as indicated by criteria bar 383. If desired, favorites screen 381 may display the

channel names and their network affiliations. Multiple network affiliations for a single channel may be displayed if desired. The program guide may also provide a user with an opportunity to tune to a channel, or parentally lock the channel by, for example, selecting a channel listing and pressing an "OK" OR "lock" key on remote control 40, respectively.

The program guide may provide a user with an opportunity to scroll through channel listings within favorites screen 381 by, for example, pressing an "up" arrow, "down" arrow, "page up" key, "page down" key, or another suitable key on remote control 40. If desired, an advertisement banner may be made part of the program listings. In this approach, a user may be required to scroll through the advertisement banner to access additional program listings. The program guide may also provide a user with an opportunity to highlight a selectable advertisement by, for example, arrowing left.

20 A user may set a channel as a favorite by for example, positioning highlight region 151 over a channel listing 150 and pressing a "fav" key on remote control 40. A user may also indicate a desire to obtain more information about a channel before setting 25 it to a favorite by, for example, pressing a suitable key on remote control 40 (e.g., an "info" key"). In response, the program guide may display additional information about a channel in a channel information screen such as illustrative channel information screens 30 shown in FIGS. 75a, 75b, 76a, and 76b. Channel information screens may display brief descriptions of channels and provide users with an opportunity to lock channels, set channels as favorites, view listings for

channels, order channels, watch the channel or perform other suitable actions. When a user has entered a channel information screen from a favorites feature, the guide may provide users with an opportunity to sort channels by name or number by, for example, arrowing left right to display "Sort by Number" or "Sort by Name" in criteria bar 383. FIG. 38 shows an illustrative favorites screen 381 in which channels are sorted by name.

The program guide may provide a user with an opportunity to clear all favorites. A user may indicate a desire to clear all favorites by, for example, pressing a suitable key on remote control 40 (e.g., a "clear" key), or by arrowing right while in the channel listings to display "Clear all favorites" in criteria bar 383. When a user indicates a desire to clear all favorites, the program guide may display a clear all favorites overlay, such as clear all favorites overlay, such as clear all favorites overlay 391 of FIG. 39. The program guide may prompt a user to confirm the clear all favorites, and may clear all favorites after a user selects "Yes".

A user may indicate a desire to access favorite channels while, for example, watching television. If there are no favorite channels set, the program guide may display a suitable overlay. FIG. 40 shows an illustrative overlay 401 that the program guide may display when there are no favorites set and a user indicates a desire to access favorite channels.

The program guide may provide a user with an opportunity to set up various aspects of program guide operation. A user may indicate a desire to set up features of the program guide and user television equipment 22 by, for example, selecting a "Setup"

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feature from main menu 102 of FIG. 32. When a user indicates a desire to set up features of the program guide or user television equipment 22, the program guide may display a setup screen, such as illustrative setup screen 411 of FIG. 41. Set up screen 411 may provide a user with an opportunity to set up various guide features, set parental control features, set features of set-top box 28 (FIG. 3), set audio features, set the screen position, set languages for program guide operation, or to set up any other feature or suitable combination of features.

A user may indicate a desire to set various guide feature by, for example, selecting a "guide" option from setup screen 411. When a user indicates a 15 desire to set guide features, the program guide may display a guide setup screen, such as illustrative guide setup screen 421 of FIG. 42. From within guide setup screen 421, the program guide may provide a user with an opportunity to, for example, set a pop-up bar 20 position on the screen for FLIP and BROWSE overlays, such as FLIP overlay 200 (FIGS. 5a and 5b) and BROWSE overlay 230 (FIGS. 6a and 6b). The program guide may also provide a user with an opportunity to set how long a FLIP overlay is displayed by setting its pop-up bar 25 time. For example, the guide may allow a user to select a time-out value between 3 and 15 seconds in one-second increments.

The program guide may also provide a user with an opportunity to set an auto-tune function. An auto-tune function may eliminate the need for a user to press a "select," "enter," or "OK" key after a 1 or 2-digit channel number entry. Some devices that control set-top box 28 (e.g., a VCR) may send two digits

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without sending a select command. Setting the autotune feature on eliminates the need to press the select so that the control of set-top box 28 is possible by other devices in user television equipment 22 which do not emit the select command. Setting the auto-tune feature to off will cause the program guide to ignore channel numbers using less than three digits unless the user presses select.

The program guide may also provide a user

10 with an opportunity to set whether a message indicator
is displayed when there are new messages, and to set
how long before the start of programs reminder notices
are displayed. The program guide may also provide a
user with an opportunity to view information about the

15 program guide. In response to a user indicating a
desire to view information about the program guide, the
program guide may display an about us screen, such as
illustrative about us screen 431 of FIG. 43. This
screen is preferably configurable by the program guide

20 provider.

The program guide may also provide users with an opportunity to set up features of set-top box 28 of FIG. 3. FIG. 44 shows an illustrative cable box setup screen 441 that the program guide may display when a 25 user indicates a desire to set up features of set-top box 28 by, for example, selecting Cable Box feature 414 of Setup screen 411. Illustrative cable box setup screen 441 shows how the program guide may provide users with an opportunity to set whether a time display 30 is displayed, when an AC output is switched or unswitched, when a radio frequency (RF) bypass is turned on or off, and to view configuration information. Cable box setup screen 501 is only

illustrative, as the program guide may provide users with an opportunity to setup any suitable settop box feature.

The RF Bypass feature operates in two modes,

which may be configurable by the program guide provider on behalf of each individual operator of television distribution facility 16. The first mode supports users who do not wish to watch one program and record another program simultaneously. These users may have

an RF Bypass switch on their set-top boxes 28 (FIG. 3) which, when engaged, allows the input signal from television distribution facility 16 to be passed to secondary storage device 32 and television 36 unprocessed by set-top box 28. When in this position,

a cable-ready storage drive, such as a VCR, may be used to automatically record specific channels at specific times.

To use this first mode, the viewer first sets RF Bypass feature 443 in cable box setup screen 441 of FIG. 44 to Enabled. Then, whenever the viewer turns set-top box 28 off, the RF Bypass switch will be engaged, and a tuner in secondary storage device 32 or television 36 may be used to select any channel that maybe decoded for recording or viewing, typically 25 unscrambled analog programming. When set-top box 28 is turned back on, the RF Bypass switch is disengaged, and the processed output from set-top box 28 is routed to secondary storage device 32 and television 36. If the viewer sets the RF Bypass feature 443 to Disabled, set-top box 28 will remove all signals from secondary storage device 32 and television 36 whenever the set-top box 28 is turned off.

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The second mode supports users who wish to watch one program while simultaneously recording a different program. These users may have an RF Bypass switch on their set-top boxes 28 that, when engaged, 5 allows the input signal from the television distribution facility 16 to be passed to television 36 unprocessed by set-top box 28 while continuing to send the processed signal from set-top box 28 to secondary storage device 32. When not engaged, the processed 10 signal set-top box 28 is routed to television 36 after being processed by secondary storage device 32. engaged, this configuration allows the user to record any program that can be processed by set-top box 28 while simultaneously allowing the user to watch any 15 program that television 36 is capable of decoding, typically an unscrambled analog channel, without guide features. When not engaged, the user may record the program that is currently being viewed.

sets the RF Bypass feature 443 in cable box setup screen 441 of FIG. 44 to Enabled. Then, whenever the user presses a suitable key, such as a Bypass key on remote control 40 or set-top box 28, the RF Bypass switch will be engaged and the viewer may use secondary storage device 32 to record the output of set-top box 28, while using television 36 to continue to watch a different channel. Because set-top box 28 output is not being sent to television 36, guide features may not be usable in this state, and preferably the guide will disable most functions. For example, the guide may allow the user to change channels or the volume, but without any displays on the screen. The guide may disable any program listing displays or program

reminders. The guide may enable parental control functions, but may not allow the user to enter a PIN to watch controlled programming. Pressing the Bypass key again will return the switch to its normal state, and allow the user to watch the same program that is being recorded and resume the use of guide functions.

The second mode includes features similar to the first mode. When the viewer turns set-top box 28 off, the RF Bypass switch will be engaged, and the user may record the program that was tuned prior to set-top box 28 being turned off, while watching any channel that television 36 can decode. When set-top box 28 is turned back on, the RF Bypass switch is disengaged, and normal functions resume. This will allow the user to easily exit from Bypass mode, for example if accidentally engaged, simply by turning set-top box 28 off and on. If the viewer sets the RF Bypass feature 443 to Disabled, set-top box 28 will remove all signals from secondary storage device 32 and television 36 when set-top box 28 is turned off, and will ignore the Bypass key.

Some cable systems distribute programming on two separate cables. In these dual-cable systems, settop box 28 selects between the A cable and the B cable based on commands from the user, or based on programming that the user has selected. In those systems, when the Bypass switch is engaged, set-top box 28 will preferably bypass the input cable which is currently selected. If the Bypass switch is engaged while set-top box 28 is off, then the A and B cables will preferably be alternately bypassed as the user presses the Bypass key or the A/B key on remote control 40 or set-top box 28. If the Bypass switch is engaged

while set-top box 28 is on, then pressing an A/B key may preferably alternate between the two inputs.

Pressing the Bypass key may first select the alternate input, and then on a subsequent press it may disengage the RF Bypass switch.

FIG. 45 shows illustrative configuration

screen 451 that the program guide may display when a user indicates a desire to view the configuration of settop box 28 by, for example, setting See

10 Configuration feature 445 of cable box setup screen 441 to "Yes". A user may return to cable box setup screen 441 by, for example, selecting last feature 453. If desired, pressing a "fav" key displays hidden screens with debugging information useful to program guide providers.

The program guide may provide a user with an opportunity to set up audio features of the guide and user television equipment 22. The program guide may display audio setup screen 461 of FIG. 46 when a user indicates a desire to set up audio feature of the guide or user television equipment 22. A user may indicate such a desire by, for example, selecting audio feature 415 of setup screen 411 (FIG. 41). The program guide may provide users with an opportunity to set, for example, the optimal stereo volume, the type of audio output, whether audio output is in stereo, the degree of Dolby compression, or any other suitable audio feature.

If desired, the program guide may provide the audio output setting is set to something other than

"Advanced," (e.g., "TV," or "Stereo"), the guide may hide the stereo output and Dolby compressing settings display elements (not shown) and use default settings (e.g., "Stereo" and "Light").

The program guide may provide users with an opportunity to set the screen position. The program guide may display, for example, position screen 471 when a user selects screen position feature 416 of setup screen 411 (FIG. 41). A user may set the screen position by, for example, pressing "right," "left", "up," and "down" keys on remote control 40. A user may return to setup screen 411 by, for example, pressing last feature 472. Adjustments made in this screen will apply in all subsequent guide screens.

The program guide may provide users with the 15 opportunity to select languages for programming audio and program guide display screen text. Program guide systems in which programming audio is played and program guide display screen text is displayed in 20 selected languages are described, for example, in concurrently filed Ellis et al. U.S. patent application Serial No. 09/354,602, filed July 16, 1999, which is hereby incorporated by reference herein in its entirety. The program guide may display languages 25 screen 481 as shown in FIG. 48 when a user indicates a desire to select a language by, for example, selecting language option 417 of setup screen 41. When a user selects a language, in this example Canadian English, the program guide may indicate to a user that the 30 programming audio and program guide display screen text will be in the selected language, as shown in FIG. 49, and prompt a user to confirm the selection.

rig. 50 shows an illustrative parental control setup screen 501 that the program guide may display when a user indicates a desire to parentally control programs but has not previously set a parental control code or purchase code by, for example, selecting a parental control feature 413 from setup screen 411 (Fig. 41). Parental control codes are codes that the program guide requires a user to enter before a user is allowed to access channels, programs, program information, other program guide data, or any suitable combination thereof, when such material or information does not meet predefined control criteria. Purchase codes are codes that the program guide requires a user to enter before a user may purchase a pay-per-view program or package.

FIG. 51 shows parental control setup screen
511 that the program guide may display when a user has
previously set a parental control or purchase code and
indicates a desire to change it by, for example,

20 highlighting a parental control option from setup
screen 411 (FIG. 41) and presses an "OK" key on remote
control 40. Parental control screen 511 may, for
example, prompt a user for a parental control code in
order to clear or otherwise modify parental control
25 settings. After a user enter a valid parental control
or purchase code, the program guide may clear the
current code. A user may then set the code by entering
a new code in parental control setup screen 501 of FIG.
50.

When program guide data is stored by the program guide, power outages may cause program guide data to be erased from the program guide. Normal parental control may be temporarily lost until the

program guide data is restored. FIG. 51 also shows how the program guide may provide a user with an opportunity to set whether all programs are locked when power is lost. When a user has set option 513 to "Yes" and the program guide loses its data, the program guide may lock all programs until program guide data is restored.

FIG. 52 shows illustrative parental control screen 521 that the program guide may display when a 10 user indicates a desire to parentally control programs. The program guide may display parental control screen 521 when, for example, a user selects a "Parents" option from main menu 102 of FIG. 32 and enters a valid parental control code. The program guide may, for 15 example, provide a user with an opportunity to parentally control programming by title, channel, rating, or any other suitable criteria. A user may lock programs by, for example, selecting a criteria, arrowing left or right to display a particular 20 selection, and pressing a "lock" key on remote control For example, FIG. 52 shows a user locking programs by channel. By pressing "left" and "right" arrow keys on remote control 40, a user may scroll through the channels. As the channel numbers and call letters are 25 displayed, they may be accompanied by a lock icon, highlighted, colored, or presented in another suitable manner to indicate to a user that a particular channel number is locked. A user may lock unlocked channels, or unlock locked channels, by, for example, pressing a 30 "lock" key on remote control 40 as the channels are displayed.

The program guide may provide a user with an opportunity to hide adult titles. When a user

activates the "hide adult titles" feature by, for example, setting it to "Yes", the program guide may display a default string such as "Adult Programming" instead of adult program title wherever program titles are displayed (e.g., FIGS. 1-16, 19-22, and 25-29). In addition, the program guide may replace any undesirable programming information with a default string information. Program guide systems in which adult titles and descriptions are hidden or blocked are described, for example, in Ellis et al. U.S. patent application Serial No. 09/201,105 filed November 30, 1998, which is hereby incorporated by reference herein in its entirety.

The program guide may provide a user with an opportunity to globally remove or deactivate locks using a "master locks" feature. In response to a user selection of the "master locks" feature shown in FIG. 52, the program guide may display a master locks program guide display screen.

FIG. 53 shows an illustrative master locks display screen 531 for providing a user with opportunities to clear all parental control locks and to bypass parental control locks. When a user sets clear all locks feature 533 to "Yes", the program guide may provide a user with an opportunity to confirm the clearing of all locks by, for example, displaying overlay 541 of FIG. 54.

A user may activate the bypass locks feature by setting bypass locks feature 535 to "Yes". When 30 activated, the bypass feature of the program guide temporarily deactivates the parental control locks and allows a user to view television programming that would otherwise be locked without entering a parental control

code. In addition, when a suitable listing screen is displayed, the program guide may change the "padlock" icon of lock indicator 161 (e.g., FIG. 10) to an "open padlock" or other suitable icon to indicate that the bypass feature is activated.

Parental control may be reactivated and bypass disabled when, for example, the set-top box is turned off and then on again, when a user tries to access the parental control features of the program 10 guide (e.g., by pressing a lock button on a remote control), or when any other suitable condition occurs. If the set-top box is reset (e.g., turned off and on), the program guide may automatically reenable the parental control feature to prevent the inadvertent 15 disabling of the parental control locks. If a user tries to access the parental control features of the program guide, the program guide may provide a user with an opportunity to confirm reenabling the parental control locks, as shown in FIG. 55. If a user confirms 20 reenabling the locks, the program guide may reenable them and allow user to use the parental control feature.

The program guide may provide users with an opportunity to parentally control programs and to set purchase codes for purchasing pay-per-view programs and packages. A user may indicate a desire to parentally control programs by, for example, pressing a "lock" key on remote control 40 while watching a program or while highlighting its listing, by selecting a parental control option from setup screen 411 of FIG. 41, by selecting a "Parents" feature from main menu 102 of FIG. 32, or when a user is in any other suitable program guide display screen.

FIG. 56 shows an illustrative overlay 561 that the program guide may display when, for example, a user indicates a desire to parentally control programs by selecting a "Parents" feature from main menu 102 of 5 FIG. 32. The program guide may prompt a user for the correct parental control code before providing a user with access to setting parental control functions. FIG. 57 shows an illustrative overlay 571 that the program guide may display when a user enters an 10 incorrect parental control code after indicating a desire to access the parental control feature of the guide from main menu 102. FIG. 58 shows an illustrative overlay 581 that the program guide may display when a user enters a wrong code a number of 15 times in a row (e.g., five). Overlay 581 may be displayed until the program guide is reset by, for example, television distribution facility 16. Alternatively, overlay 581 may disappear but the guide may prevent the user from attempting to enter a code 20 until television distribution facility 16 clears the code or a pre-defined period of time has passed.

The program guide may provide a user with an opportunity to set a parental control code when, for example, a user indicates a desire to access the 25 parental control feature of the program guide but a code is not set. FIG. 59 shows illustrative overlay 591 that the program guide may display when, for example, a user selects a "Parents" feature from main menu 102 of FIG. 32 and no parental control code is 30 set. After a user enters a new code, the program guide may provide a user with an opportunity to confirm the code as shown in FIG. 60.

FIGS. 61-65 show illustrative program guide display screens that the program guide may display when, for example, a user indicates a desire to lock a program from within a program information screen.

- 5 Program information screens are display screens that display additional information about a program for a user. Program information screens may, for example, tell a user the story-line of plot of a program, its actors, its rating, or any other suitable information.
- 10 FIG. 61 shows illustrative overlay 611 that the program guide may display when, for example, a user indicates a desire to lock a program from within a program information screen but there is no parental code set.

 A user is prompted to enter a new code, and the program guide may provide a user with an opportunity to confirm

the code, as is shown in FIG. 62.

When a parental code is set and a user indicates a desire to lock a program from within a program information screen, the program guide may 20 prompt a user for the parental control code as is shown in FIG. 63. If a user enters an incorrect code, the program guide may prompt a user to reenter it, as shown in FIG. 64. FIG. 65 shows an illustrative overlay 651 that the program guide may display when a user enters a 25 wrong code a number of times in a row (e.g., five). Overlay 651 may be displayed until the program guide is reset by, for example, television distribution facility 16. Overlay 651 may also be displayed any time a user enters a wrong code too many times (e.g., from within the overlay shown in FIG. 56).

The program guide may also provide a user with an opportunity to lock programs "by example." A user may indicate a desire to lock programs by example

by, for example, pressing a "lock" key while watching a program or after highlighting a program listing, or by selecting an on screen lock feature within a display screen (e.g., within a program information screen).

5 When a user indicates a desire to lock programs by example, the program guide may allow the user to lock the title, rating, or channel of the program. By locking the title, rating, or channel of a program, the program guide locks programs (and episodes of a program) with similar characteristics.

that the program guide may display when a user indicates a desire to lock programs by example. Users may lock the title, rating, or channel of the program by, for example, arrowing to each selection or pressing a "lock" button on remote control 40. When the user locks a selection, the guide may display a lock indicator. Users may unlock selections by, for example, pressing a "lock" button. The program guide may respond by unlocking the selected title, rating, or channel and removing the displayed lock indicator. If desired or when system resources require, the program guide may limit the number of titles a user may lock. FIG. 67 shows illustrative overlay 671 that prompts a user to clear a title lock before adding another.

Once a user has setup parental control features of the program guide, the program guide may require a user to enter a parental control code when a user indicates a desire to access programs, program information, or other program guide data that meet the parental control criteria. FIG. 68 shows an illustrative overlay 681 that the program guide may display when a user attempts to tune to a channel that

is parentally restricted or that is broadcasting a program that is restricted.

The program guide may provide a user with opportunities to view information about programs and to 5 access related features from within program information screens. Systems in which program guides provide users with opportunities to access program guide features from within information screens are described, for example, in concurrently filed Rudnick et al. U.S. 10 patent application Serial No. 09/356,268, filed July 16, 1999, which is hereby incorporated by reference herein in its entirety. Program information screens may include, for example, a brief description of a program, the actors of a program, the rating of a program, when 15 a program is aired, or any other suitable information related to a program. The program guide may display a program information screen when a user indicates a desire to view program information by, for example, pressing an "info" key on remote control 40 while 20 watching a program or after selecting its listing, by selecting a selectable advertisement that promotes a program for which program information is available, or using any other suitable approach.

FIGS. 69 and 70a show illustrative program
25 information screens 691 and 701. The program guide may
display program information screen 691 when, for
example, a user selects a selectable advertisement for
a program from within any program guide display screen.
An advertisement for the program that is displayed as
30 part of program information screen 691 may not be
selectable. Otherwise, selecting the advertisement
would just bring a user back to the same screen.
Program information screen 701 may be displayed when,

for example, a user indicates a desire to view program information while watching a program or after selecting its listing.

Program information screens, such as program
information screens 691 and 701, may also include
features that a user may select for the subject
program. A user may, for example, set a reminder for
the subject program by selecting remind feature 695. A
user may also, for example, lock the subject program by
example by selecting lock feature 697. A user may
return to the last screen by, for example, selecting
last feature 693. A user may also select a watch
feature (not shown), to watch the program.

A user may view other air times for a program

by, for example, selecting a times feature (as shown,
for example, in FIGS. 73 and 74) and then pressing left
and right arrow keys on remote control 40 to navigate
through air times. FIG. 70b shows the air times, for
example, for Mad About You. The program guide may

display additional air times when, for example, a user
arrows right or left. When a user selects an air time,
the program guide may display a program information
screen with the new air time and corresponding channel
and program information.

The program guide may provide users with an opportunity to view program information for other types of programs, such as movies, pay-per-view programs and programs which are part of orderable packages, or for channels such as premium and music channels. FIGS. 71 and 72 show illustrative program information screens 711 and 721 for pay-per-view programs. The program guide may display program information screen 711 when, for example, a user selects a selectable advertisement

for a pay-per-view program. The program guide may display program information screen 721 when, for example, a user is watching a pay-per-view program, or highlights a pay-per-view program listing, and presses 5 an "info" or "OK" key on remote control 40. As shown in FIGS. 71 and 72, the program guide may provide a user with an opportunity to view the times at which a pay-per-view program airs. When a user selects an air time, the program guide may allow the viewer to 10 purchase that showing. If a program is not impulse purchasable, the guide may display a screen such as display 691 of FIG. 69 or 701 of FIG. 70a and include an order feature (not shown). When a user selects the order feature, the guide may instruct the user to 15 purchase the selection by telephone as shown, for example, in FIG. 92.

information screens 731 and 741 for a program which is part of an orderable package of pay-per-view programs.

The program guide may display program information screen 731 when, for example, a user selects a selectable advertisement for a program which is part of a pay-per-view package. The program guide may display program information screen 741 when, for example, a user is watching a pay-per-view program that is within a package, or highlights its listing, and presses an "info" or "OK" key on remote control 40. As shown in FIGS. 73 and 74, the program guide may indicate to a user that the pay-per-view program is part of a package by displaying package name 735.

The program guide may provide a user with an opportunity to order pay-per-view programs and pay-per-view packages from within program information screens.

A user may indicate a desire to order a pay-per-view package, for example, by selecting order feature 737 of program information screen 731. When a user selects order feature 737, the program guide may display an order confirmation screen, such as the order confirmation screens shown in FIGS. 80 and 81. A user may also see other air-times for a pay-per-view program within a package by, for example, selecting times option 739.

10 FIGS. 75a and 75b show illustrative channel information screens for a channel that the program guide may display when a user indicates a desire to view information for a channel. The program guide may display channel information screen 751 when, for example, a user selects a selectable advertisement for a channel. The program guide may display channel information screen 761 when, for example, a user highlights a listing for the channel (e.g., as in the display screen of FIG. 23 or FIG. 38), and presses an "info" key on remote control 40.

Channel information screens, such as channel information screen 751 or 761, may indicate that a channel has been designated as a favorite by, for example, displaying "Favorite" in the second text line of the screen. Channel information screens may also include listings option 753. When a user selects listings option 753, the program guide may display a program listings screen for the channel (e.g., listings by channel screen 140 of FIG. 11a). The program guide may also tune to the channel when, for example, a user selects watch feature 755. The guide may also allow users to perform other functions from the information screens of FIGS. 75a and 75b. The program guide may,

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for example, designate a channel as a favorite channel when the user selects an on-screen favorite feature (now shown). The guide may, also, for example, allow the user to parentally control the channel when the user selects an on-screen lock feature (not shown). The guide may display ordering information when the user selects an on-screen order feature (not shown).

FIGS. 76a and 76b show illustrative channel information screens 771 and 781 for music channels that the program guide may display when a user indicates a desire to view information for a music channel. The program guide may display music channel information screen 771 when, for example, a user selects a selectable advertisement for a music channel. The program guide may display music channel information screen 781 when, for example, a user highlights its listing (e.g., as in the display screen of FIG. 23), and presses an "info" key on remote control 40.

Music channel information screens, such as
20 music channel information screens 771 and 781, may
include selectable features, such as favorite feature
773. Music channel information screens may also
include a listen feature, such as listen feature 771.
The program guide may tune to a music channel when, for
25 example, a user selects listen feature 771. The guide
may also allow users to perform other functions from
the information screens of FIGS. 76a and 76b. The
program guide may, for example, allow the user to
parentally control the channel when the user selects an
30 on-screen lock feature (not shown). The guide may also
display ordering information when the user selects an
on-screen order feature (not shown).

Situations may arise where the user has not ordered a channel to which the user has tuned (as shown in FIGS. 27 and 28) or for which a user has displayed channel information (shown, for example, in FIGS. 75a, 75b, 76a, and 76b). The guide may instruct a user how to order a channel as shown in FIGS. 77 and 78 when, for example, a user selects an order feature (not shown) from the screens shown in FIGS. 75a, 75b, 76a, and 76b. As mentioned, users may access the information screens of FIGS. 75b and 76b after tuning to a channel to which the user has not subscribed and indicating a desire to view information, such as in response to the overlay of FIGS. 27 and 28.

The program guide may provide users with the 15 opportunity to order pay-per-view programs and pay-perview program packages. A user may indicate a desire to order a pay-per-view program by, for example, selecting a start time within a pay-per-view program information screen for the pay-per-view program (e.g., FIGS. 71 and The program guide may respond by displaying an order confirmation screen, such as order confirmation screen 791 of FIG. 78. Order confirmation screen 791 may prompt a user for a purchase code, such as the purchase code set up in parental control setup screen 25 501 of FIG. 50. After a user enters a correct purchase code, the program guide may allow the user to watch the program and register the purchase with television distribution facility 16. If no purchase code has been set, the program guide may instead prompt a user to 30 confirm the purchase, as shown in FIG. 79.

When a user indicates a desire to order a pay-per-view package by, for example, selecting order feature 737 of FIG. 73, the program guide may display a

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package order confirmation screen, such as package order confirmation screen 811 of FIG. 80. Package order confirmation screen 811 may prompt a user for a purchase code, such as the purchase code set up in 5 parental control setup screen 501 of FIG. 50. After a user enters a correct purchase code, the program guide may register the purchase with television distribution facility 16. If no purchase code has been set, the program guide may instead prompt a user to confirm the 10 purchase, as shown in FIG. 81. The user may also select an individual listing from the screens shown in FIGS. 80 and 81 to get information on the individual pay-per-view program within the package.

Once a user has entered a purchase code or confirmed an order, the program guide may display an overlay indicating that the program has been ordered, as shown in FIG. 82. If desired, the program guide may also set a reminder for the pay-per-view program or for the programs in a package. If the program is about to start or has already started, the program guide may tune to the channel on which the program, or a program in an ordered package, is carried. FIG. 83 shows illustrative overlay 841 that the program guide may display after tuning to the channel. If desired, a FLIP overlay also may be displayed as shown.

The program guide may indicate to a user that an ordered program, or program in a package, has already started or has already been ordered, and may prompt a user to confirm the current order, as shown in 30 FIGS. 84, 85, and 86. The program guide may also indicate to a user that an ordered pay-per-view program or package conflicts with a pay-per-view program or with programs in a package that a user has already

ordered. FIG. 87 shows an illustrative overlay 871 that the program guide may display when a user has an order conflict. Overlay 871 provides a user with an opportunity to cancel the order or to order both 5 programs.

The program guide may also provide a user with an opportunity to cancel an order of a pay-per-view program or package. A user may indicate a desire to cancel an order by, for example, selecting last features 793 of FIGS. 78 and 80, or no features 803 of the screens shown in FIGS. 79, 81, 84, and 87. The user may also indicate a desire to cancel an order by selecting the "Yes" features of FIGS. 85 and 86. The program guide may respond by displaying an overlay indicating to a user that the order has been canceled. An illustrative overlay 881 is shown in FIG. 88.

The program guide may be unable to order a pay-per-view program or package of programs because, for example, a user has ordered too many pay-per-view 20 programs or packages, because a user has an insufficient amount of credit with an operator of television distribution facility 16, or because the program or package is no longer available. FIG. 89 shows an illustrative overlay 891 that the program 25 guide may display when, for example, a user has ordered too many pay-per-view programs or packages. FIG. 90 shows an illustrative overlay 901 that the program guide may display when, for example, a user orders a pay-per-view program or package and has insufficient 30 credit with an operator of television distribution facility 16. FIG. 91 shows an illustrative overlay 911 that the program guide may display when, for example, a user orders a pay-per-view program or package and the

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program or programs in the package are no longer available.

Set-top box 28 of FIG. 3 may not be configured so that the program guide can order pay-per
5 view programs or packages directly from television distribution facility 16. Also, a particular program may not be available for impulse purchase. When a user indicates a desire to order a pay-per-view program, the program guide may indicate to a user that a user must order the pay-per-view program or package by phone. FIGS. 92 and 93 show illustrative overlays 921 and 931 that the program guide may display when a user must order a program or package by phone, respectively.

The program guide may set reminders for 15 programs when a user indicates a desire to set a reminder by, for example, selecting an on-screen reminder feature. On-screen reminder features 695 are shown, for example, in FIGS. 69, 70a, and 74. When a user indicates a desire to set a reminder for a program 20 from within a program information screen by selecting a reminder feature, the program guide may prompt a user to set the reminder as shown in FIG. 94. If a user selects a reminder feature when a reminder has already been set for a program, the guide may present the 25 prompt shown in FIG. 95, thereby giving the user the opportunity to cancel the reminder. If desired or when system resources require, the program guide may limit the number of reminders a user can set. FIG. 96 shows illustrative overlay 961 that prompts a user to clear a 30 reminder before adding another.

The program guide may remind a user that a program is airing at the time a program airs. In an alternative approach, the program guide may remind a

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user at some predetermined period of time before the program airs that a program is going to air. FIGS. 97 and 98 show illustrative program reminder lists 971. In FIG. 97, reminder list 971 is overlaid on top of the currently display television program to provide a user with the opportunity to view a reminder while still viewing a portion of the television program that a user is watching. In FIG. 98, reminder list 971 is shown overlaid on top of a program listings display screen.

10 The program guide may provide a user with an opportunity to scroll through reminder list 971 by, for example, using remote control arrow keys. The program guide may hide the reminder list when, for example, a user selects hide reminder feature 972. The guide may 15 also display reminder list 971 if, for example, the user presses an "OK" key at any time while watching TV.

The program guide may also display reminders that indicate to a user that a user has missed an ordered pay-per-view program. The program guide may, 20 for example, determine that a pay-per-view program started too long in the past and that the viewer never watched it. FIGS. 99 and 100 show illustrative overlay 991 overlaid on a television program and a program guide display screen, respectively that 25 indicate to a user that a user has missed a pay-per-view program. Overlay 991 displays the missed pay-per-view program and prompts a user to indicate whether a user wishes to reschedule. A user may reschedule the missed program by, for example, selecting "Yes" button 30 993.

If the user ignores a reminder for a pay-perview program, the program guide may display a reminder for when the ordered pay-per-view programs are starting. FIGS. 101 and 102 show illustrative overlays 1011 that indicate to a user that a pay-per-view program is starting. The program guide may overlay overlays 1011 over a television program or a program 5 guide display screen as shown in FIGS. 101 and 102, respectively. Overlay 1011 displays the starting pay-per-view program and prompts a user to indicate whether a user wishes to tune to the program. A user may tune to the starting pay-per-view program by, for example, selecting "Yes" button 1012.

The program guide may also display overlays that indicate in-band messages sent by the operator of television distribution facility 16. FIG. 103, for example, shows overlay 1031 that indicates to a user that a user's account is past due. FIG. 29, for example, shows an illustrative overlay that indicates that a special pay-per-view promotion is being offered. The content of overlay 1031 (or the overlay of FIG. 29) is typically sent by an operator when the operator has a message that they want the user to see immediately. The content may also be preprogrammed into the program guide or may be downloaded as part of the program guide data.

Users may forget how to access various

25 features of the program guide. The program guide may provide users with the opportunity to view help text by, for example, pressing a "help" key on remote control 40. FIG. 104 shows an illustrative help overlay 1041 that may be displayed by the program guide to provide a user with help text. The content of overlay 1041 may be context sensitive thereby providing a user with help text for the program guide display screen currently being displayed by the program guide.

The program guide may be disabled by main facility 12 when, for example, an operator is not current with his or her account. FIGS. 105 and 106 show illustrative overlays 1051 that the program guide may display when it is disabled. FIG. 106 illustrates how television viewing may also be disabled if desired. FIG. 106 shows overlay 1051 overlaid on the video that a user is watching.

FIGS. 107 and 108 are illustrative flowcharts of steps involved in operating the program guide of the present invention. The steps shown in FIGS. 107 and 108 may be performed in any suitable order, and may be omitted if desired.

FIG. 107 shows illustrative steps involved in providing a user with an opportunity to access program guide features. At step 1071, the program guide provides a user with an opportunity to access a program guide feature by, for example, selecting a selectable feature 106 from main menu 102 of FIGS. 7, 18, and 34.

- 20 When a user selects a "Setup" feature from main menu 102 for example, the program guide may provide a user with the opportunity to set parental control locks as discussed with respect to FIGS. 50-66. At step 1073, the program guide may provide a user with an
- opportunity to configure the guide to temporarily bypass locks. The guide may temporarily bypass (or disable) locks at step 1075. At step 1077, the program guide may reenable parental control locks because, for example, user television equipment 22 was reset.

The program guide may also provide a user with an opportunity to access a setup feature whereby a user may set the program guide to auto-tune when the user enters a channel number using, for example, remote

control 40 of FIG. 3. At step 1079, the program guide provides a user with an opportunity to set the program guide to auto-tune. When the user sets the program guide to auto-tune, user television equipment 22 will tune to a channel that the user enters without requiring the user to enter three digits or to press "select" or "OK", on remote control 40.

The program guide may provide a user with an opportunity to navigate within program listings (step 10 1081). The user may, for example, scroll or page through listings that are displayed as part of a program listings screen. The program guide may display, within the listings, a demarcation (e.g., a separator) between listings that start at the same time 15 or near the same time (step 1083). As the user navigates within listings, the program guide may skip the demarcation (step 1085), and require the user to navigate through an advertisement banner (step 1089), if desired. In by time screens, the guide may change 20 the time bar display (or other suitable time display) to indicate that the user has changed time slots (step 1087). Users may change time slots by, for example, scrolling up or down until a new time slot is reached, or by arrowing left or right to quickly change time 25 slots.

FIG. 108 is a flowchart of illustrative steps involved in providing a user with access to local information service data using the program guide. At step 1200, local information data is provided by program guide data source 14 by, for example, local information service 15 (FIG. 1). The local information data may be provided to main facility 12 or local television distribution facility 16. At step 1210, the

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local information data is configured so that it may be used by the program guide and may indicate to the program guide how display screens are to be configured. For example, the local information data may indicate

5 that the program guide should use the format shown in FIG. 35c instead of FIG. 35a. In another suitable approach, the local information data may indicate to the program guide that a user should be provided an opportunity to access data from multiple information

10 services as shown, for example, in FIG. 35b. The program guide provides a user with an opportunity to access a suitably configured display screen at step 1220.

Step 1220 may include indicating to the user

the type of local information services available to the user based on the local information data (step 1225).

For example, main facility 12 may configure the local information data to indicate to the program guide that the program guide is providing a user with access to local weather information. Accordingly, the program guide may display "Weather" as a selectable feature within main menu 102. At step 1230, the program guide displays the local information data in a suitable configured display screen.

The foregoing is merely illustrative of the principles of this invention and various modifications can be made by those skilled in the art without departing from the scope and spirit of the invention.

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What is claimed is:

1. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to display on the user television equipment a program listings screen having a plurality of program listings and a separator embedded within the program listings, wherein the separator visually separates the program listings into two regions each of which is associated with a different time slot, and wherein the separator contains information associated with one of the time slots.

- 2. The system defined in claim 1 wherein the information associated with one of the time slots includes the start time of the time slot.
- 3. The system defined in claim 2 wherein the program guide is configured to display the separator only when there are programs starting at least near the start time contained within the separator.
- 4. The system defined in claim 1 wherein the program guide is further configured to:

provide a user with an opportunity to navigate within the plurality of program listings while

indicating to the user a program listing that the user has navigated to; and

to skip the separator when the user navigates through the plurality of program listings.

5. The system defined in claim 1 wherein the program guide is further configured to:

provide a user with an opportunity to navigate within the plurality of program listings while indicating to the user a program listing that the user has navigated to; and

require that the user navigate through an advertisement banner.

- 6. The system defined in claim 1 wherein the program guide is further configured to display a time indicator that is displayed according to the time slot for a listing that the user is navigating through.
- 7. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to:

display on the user television equipment a program guide display screen having an on-screen arrow that indicates to a user an available action; and

to change a display characteristic of the on-screen arrow in response to the user performing the available action.

- 8. The system defined in claim 7 wherein the interactive television program guide is further configured to change the display characteristic of the on-screen arrow by highlighting the on-screen arrow in response to the user performing the available action.
- 9. The system defined in claim 7 wherein:
 the on-screen arrow has a color; and
 the interactive television program guide
 is further configured to change the display
 characteristic of the on-screen arrow by changing the
 color of the on-screen arrow in response to the user
 performing the available action.
- 10. An interactive television program guide system comprising:

a program guide data source configured to provide local information data;

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to display the local information data on the user television equipment in a display screen that is configurable based on the local information data.

11. The system defined in claim 10 wherein the interactive television program guide is further configured to provide a user with an opportunity to

access the display screen displaying the local information data from a main menu that indicates a type of local information based on the local information data.

- 12. The system defined in claim 10 wherein the local information data is local weather information data.
- 13. The system defined in claim 10 wherein the local information data is local sports information data.
- 14. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to provide a user with an opportunity to configure the program guide to auto-tune channels when the user indicates a desire to change channels.

15. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide

equipment having user television equipment, wherein the interactive television program guide is configured to:

provide a user with an opportunity to search through the program listings while the interactive television program guide displays at least a first portion of the program listings in a display screen on the user television equipment; and

to display at least a second portion of the program listings in a display screen on the user television equipment when the user indicates using the user television equipment that the user is finished searching through the program listings, wherein the first display screen includes fewer program listings than the second display screen.

16. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to:

display on the user television equipment at least a portion of the program listings in a display screen wherein program listings for similar titles are represented only once in the display screen; and

provide a user with an opportunity to search through the program listings in the display screen.

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17. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to:

provide a user with an opportunity to set a duration for the interactive television program guide to display a FLIP overlay; and

display the FLIP overlay for the duration set by the user.

18. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to:

display a FLIP overlay on the user television equipment after a user indicates a desire to change channels; and

to remove the FLIP overlay from display on the user television equipment after a predefined time by sliding the FLIP overlay toward the bottom of the display until the entire FLIP overlay is no longer displayed.

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19. An interactive television program guide system comprising:

a main facility having a program guide data source for providing program guide data comprising program listings;

interactive television program guide equipment on which an interactive television program guide is implemented, the interactive television program guide equipment comprising:

a television distribution facility; and

user television equipment; and wherein:

the main facility is configured to turnoff the program guide; and

the interactive television program guide is configured to display an overlay indicating that the interactive television program guide has been turned-off by the main facility.

20. An interactive television program guide system comprising:

a program guide data source for providing program guide data comprising program listings; and

an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the interactive television program guide is configured to:

provide a user with an opportunity to view channel information from a favorites program guide display screen; and

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provide a user with an opportunity to set a television channel as a favorite based on the channel information.

21. A hybrid passive-interactive television program guide system comprising:

a main facility configured to provide a plurality of promotional videos and to schedule a first subset of the promotional videos for distribution according to a promotional philosophy;

a television distribution facility
having a plurality of associated users, wherein the
television distribution facility is configured to
receive the plurality of promotional videos and to (1)
distribute the first subset of the plurality of
promotional videos to a plurality of users over a
dedicated television channel, and (2) to distribute a
second subset of the plurality of promotional videos to
the plurality of users over a dedicated television
channel instead of the first subset of the plurality of
promotional videos when the second subset of the
plurality of promotional videos is more suitable for
the associated users than the first subset of the
plurality of promotional videos as defined by the
promotional philosophy; and

user television equipment configured to simultaneously display an interactive television program guide with the second subset of the plurality of promotional videos when the second subset of the plurality of promotional videos is more suitable for the associated users than the first subset of the plurality of promotional videos as defined by the promotional philosophy.

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22. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings; and

displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment a program listings screen having a plurality of program listings and a separator embedded within the program listings, wherein the separator visually separates the program listings into two regions each of which is associated with a different time slot, and wherein the separator contains information associated with one of the time slots.

- 23. The method defined in claim 22 wherein the step of displaying a program listings screen comprises displaying a program listings screen having a plurality of program listings and a separator embedded within the program listings, wherein the separator visually separates the program listings into two regions each of which is associated with a different time slot, and wherein the separator contains the start time of one of the time slots.
- 24. The method defined in claim 22 wherein the step of displaying a program listings screen comprises displaying a program listings screen having a plurality of program listings and a separator embedded within the program listings, wherein the separator visually separates the program listings into two

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regions each of which is associated with a different time slot, and wherein the separator is displayed only when there are programs starting at least near the start time contained within the separator.

25. The method defined in claim 22 further comprising the steps of:

providing a user with an opportunity to navigate within the plurality of program listings while indicating to the user a program listing that the user has navigated to using the interactive television program guide; and

skipping the separator when the user navigates through the plurality of program listings using the interactive television program guide.

26. The method defined in claim 22 further comprising the steps of:

providing a user with an opportunity to navigate within the plurality of program listings while indicating to the user a program listing that the user has navigated to using the interactive television program guide; and

requiring with the interactive television program guide that the user navigate through an advertisement banner.

27. The method defined in claim 22 further comprising the step of displaying with the interactive television program guide a time indicator that is displayed according to the time slot for a listing that the user is navigating through.

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28. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings;

displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment a program guide display screen having an on-screen arrow that indicates to a user an available action; and

changing a display characteristic of the on-screen arrow with the interactive television program guide in response to the user performing the available action.

- 29. The method defined in claim 28 wherein the step of changing a display characteristic of the on-screen arrow with the interactive television program guide comprises changing the display characteristic of the on-screen arrow by highlighting the on-screen arrow in response to the user performing the available action.
- 30. The method defined in claim 28 wherein:

 the on-screen arrow has a color; and
 the step of changing a display

 characteristic of the on-screen arrow with the
 interactive television program guide comprises changing
 the display characteristic of the on-screen arrow by
 changing the color of the on-screen arrow in response
 to the user performing the available action.

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31. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings; and

displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment the local information data in a display screen that is configurable based on the local information data.

- 32. The method defined in claim 31 further comprising the step of providing a user with an opportunity to access the display screen displaying the local information data from a main menu that indicates a type of local information based on the local information data.
- 33. The method defined in claim 31 wherein the step of displaying the local information data in a display screen that is configurable based on the local information data comprises displaying local weather information in a display screen that is configurable based on the local weather information.
- 34. The method defined in claim 31 wherein the step of displaying the local information data in a display screen that is configurable based on the local information data comprises displaying local sports information in a display screen that is configurable based on the local sports information.

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35. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings;

providing a user with an opportunity to configure an interactive television program guide implemented on interactive television program guide equipment having user television equipment to auto-tune channels when the user indicates a desire to change channels; and

displaying at least a portion of the program listings with the interactive television program guide on the user television equipment in a program guide display screen.

36. An method for use in an interactive television program guide system comprising:

providing program guide data comprising
program listings;

providing a user with an opportunity to search through the program listings with an interactive television program guide implemented on interactive television program guide equipment having user television equipment while the interactive television program guide displays at least a first portion of the program listings in a display screen on the user television equipment; and

displaying at least a second portion of the program listings in a display screen on the user television equipment with the interactive television program guide when the user indicates using the user television equipment that the user is finished

searching through the program listings, wherein the first display screen includes fewer program listings than the second display screen.

37. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings;

displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment at least a portion of the program listings in a display screen wherein program listings for similar titles are represented only once in the display screen; and

providing a user with an opportunity to search through the program listings with the interactive television program guide in the display screen.

38. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings;

providing a user with an opportunity to set a duration for the interactive television program guide to display a FLIP overlay, wherein the interactive television program guide is implemented on interactive television program guide equipment having user television equipment; and

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displaying the FLIP overlay for the duration set by the user with the interactive television program guide on the user television equipment.

39. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings;

displaying a FLIP overlay with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment after a user indicates a desire to change channels; and

removing the FLIP overlay from display on the user television equipment with the interactive television program guide after a predefined time by sliding the FLIP overlay toward the bottom of the display until the entire FLIP overlay is no longer displayed.

40. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising program listings from a main facility to interactive television program guide equipment on which an interactive television program guide is implemented;

turning-off the interactive television program guide from the main facility; and

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displaying on the user television equipment with the interactive television program guide an overlay indicating that the interactive television program guide has been turned-off with the main facility.

41. A method for use in an interactive television program guide system comprising the steps of:

providing program guide data comprising
program listings;

providing a user with an opportunity to view channel information from a favorites program guide display screen with an interactive television program guide implemented on interactive television program guide equipment having user television equipment, wherein the favorites program guide display screen is displayed on the user television equipment; and

providing a user with an opportunity to set a television channel as a favorite based on the channel information with the interactive television program guide.

42. A method for use in a hybrid passiveinteractive television program guide system comprising the steps of:

providing a plurality of promotional
videos;

scheduling a first subset of the promotional videos for distribution by a main facility according to a promotional philosophy;

receiving the plurality of promotional videos at a television distribution facility;

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distributing the first subset of the plurality of promotional videos from the television distribution facility to a plurality of users over a dedicated television channel;

distributing a second subset of the plurality of promotional videos from the television distribution facility to the plurality of users over a dedicated television channel instead of the first subset of the plurality of promotional videos when the second subset of the plurality of promotional videos is more suitable for the associated users than the first subset of the plurality of promotional videos as defined by the promotional philosophy; and

simultaneously displaying an interactive television program guide implemented on interactive television program guide equipment having user television equipment with the second subset of the plurality of promotional videos when the second subset of the plurality of promotional videos is more suitable for the associated users than the first subset of the plurality of promotional videos as defined by the promotional philosophy.

43. An interactive television program guide system comprising:

means for providing program guide data comprising program listings; and

means for displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment a program listings screen having a plurality of program listings and a separator embedded within the program

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listings, wherein the separator visually separates the program listings into two regions each of which is associated with a different time slot, and wherein the separator contains information associated with one of the time slots.

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- 44. The system defined in claim 43 wherein the means for displaying a program listings screen comprises means for displaying a program listings screen having a plurality of program listings and a separator embedded within the program listings, wherein the separator visually separates the program listings into two regions each of which is associated with a different time slot, and wherein the separator contains the start time of one of the time slots.
- 45. The system defined in claim 43 wherein the means for displaying a program listings screen comprises means for displaying a program listings screen having a plurality of program listings and a separator embedded within the program listings, wherein the separator visually separates the program listings into two regions each of which is associated with a different time slot, and wherein the separator is displayed only when there are programs starting at least near the start time contained within the separator.
- 46. The system defined in claim 43 further comprising:

means for providing a user with an opportunity to navigate within the plurality of program listings while indicating to the user a program listing

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that the user has navigated to using the interactive television program guide; and

means for skipping the separator when the user navigates through the plurality of program listings using the interactive television program guide.

47. The system defined in claim 43 further comprising:

means for providing a user with an opportunity to navigate within the plurality of program listings while indicating to the user a program listing that the user has navigated to using the interactive television program guide; and

means for requiring with the interactive television program guide that the user navigate through an advertisement banner.

- 48. The system defined in claim 43 further comprising the means for displaying with the interactive television program guide a time indicator that is displayed according to the time slot for a listing that the user is navigating through.
- 49. An interactive television program guide system comprising:

means for providing program guide data comprising program listings; and

means for displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment a

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program guide display screen having an on-screen arrow that indicates to a user an available action; and

means for changing a display characteristic of the on-screen arrow with the interactive television program guide in response to the user performing the available action.

- 50. The system defined in claim 49 wherein the means for changing a display characteristic of the on-screen arrow with the interactive television program guide comprises means for changing the display characteristic of the on-screen arrow by highlighting the on-screen arrow in response to the user performing the available action.
- 51. The system defined in claim 49 wherein:
 the on-screen arrow has a color; and
 the means for changing a display
 characteristic of the on-screen arrow with the
 interactive television program guide comprises means
 for changing the display characteristic of the onscreen arrow by changing the color of the on-screen
 arrow in response to the user performing the available
 action.
- 52. An interactive television program guide system comprising:

means for providing program guide data comprising program listings; and

means for displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment

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the local information data in a display screen that is configurable based on the local information data.

- 53. The system defined in claim 52 further comprising the means for providing a user with an opportunity to access the display screen displaying the local information data from a main menu that indicates a type of local information based on the local information data.
- 54. The system defined in claim 52 wherein the means for displaying the local information data in a display screen that is configurable based on the local information data comprises means for displaying local weather information in a display screen that is configurable based on the local weather information.
- 55. The system defined in claim 52 wherein the means for displaying the local information data in a display screen that is configurable based on the local information data comprises means for displaying local sports information in a display screen that is configurable based on the local sports information.
- 56. An interactive television program guide system comprising:

means for providing program guide data
comprising program listings;

means for providing a user with an opportunity to configure an interactive television program guide implemented on interactive television program guide equipment having user television

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equipment to auto-tune channels when the user indicates a desire to change channels; and

means for displaying at least a portion of the program listings with the interactive television program guide on the user television equipment in a program guide display screen.

57. An interactive television program guide system comprising:

means for providing program guide data
comprising program listings;

means for providing a user with an opportunity to search through the program listings with an interactive television program guide implemented on interactive television program guide equipment having user television equipment while the interactive television program guide displays at least a first portion of the program listings in a display screen on the user television equipment; and

means for displaying at least a second portion of the program listings in a display screen on the user television equipment with the interactive television program guide when the user indicates using the user television equipment that the user is finished searching through the program listings, wherein the first display screen includes fewer program listings than the second display screen.

58. An interactive television program guide system comprising:

means for providing program guide data comprising program listings;

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means for displaying with an interactive television program guide implemented on interactive television program guide equipment having user television equipment on the user television equipment at least a portion of the program listings in a display screen wherein program listings for similar titles are represented only once in the display screen; and

means for providing a user with an opportunity to search through the program listings with the interactive television program guide in the display screen.

59. An interactive television program guide system comprising:

means for providing program guide data
comprising program listings;

means for providing a user with an opportunity to set a duration for the interactive television program guide to display a FLIP overlay, wherein the interactive television program guide is implemented on interactive television program guide equipment having user television equipment; and

means for displaying the FLIP overlay for the duration set by the user with the interactive television program guide on the user television equipment.

60. An interactive television program guide system comprising:

means for providing program guide data
comprising program listings;

means for displaying a FLIP overlay with an interactive television program guide implemented on

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interactive television program guide equipment having user television equipment on the user television equipment after a user indicates a desire to change channels; and

means for removing the FLIP overlay from display on the user television equipment with the interactive television program guide after a predefined time by sliding the FLIP overlay toward the bottom of the display until the entire FLIP overlay is no longer displayed.

61. An interactive television program guide system comprising:

means for providing program guide data comprising program listings from a main facility to interactive television program guide equipment on which an interactive television program guide is implemented;

means for turning-off the interactive television program guide from the main facility; and means for displaying on the user television equipment with the interactive television program guide an overlay indicating that the interactive television program guide has been turned-off with the main facility.

62. An interactive television program guide system comprising:

means for providing program guide data
comprising program listings;

means for providing a user with an opportunity to view channel information from a favorites program guide display screen with an interactive television program guide implemented on

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interactive television program guide equipment having user television equipment, wherein the favorites program guide display screen is displayed on the user television equipment; and

means for providing a user with an opportunity to set a television channel as a favorite based on the channel information with the interactive television program guide.

63. A hybrid passive-interactive television program guide system comprising:

means for providing a plurality of
promotional videos;

means for scheduling a first subset of the promotional videos for distribution by a main facility according to a promotional philosophy;

means for receiving the plurality of promotional videos at a television distribution facility;

means for distributing the first subset of the plurality of promotional videos from the television distribution facility to a plurality of users over a dedicated television channel;

means for distributing a second subset of the plurality of promotional videos from the television distribution facility to the plurality of users over a dedicated television channel instead of the first subset of the plurality of promotional videos when the second subset of the plurality of promotional videos is more suitable for the associated users than the first subset of the plurality of promotional videos as defined by the promotional philosophy; and

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means for simultaneously displaying an interactive television program guide implemented on interactive television program guide equipment having user television equipment with the second subset of the plurality of promotional videos when the second subset of the plurality of promotional videos is more suitable for the associated users than the first subset of the plurality of promotional videos as defined by the promotional philosophy.

64. A television programming viewing system in which multiple types of RF bypass switches may be used in conjunction with a set-top box, and wherein television programming is provided to a number of viewers, the system comprising:

a display device for displaying the television programming;

a recording device for recording the television programming;

an RF bypass switch of a single type of switch from a plurality of different types of switches, wherein the RF bypass switch comprises at least one switch state and is configured to allow at least one unprocessed signal representing the television programming to be passed to at least one device from the group of devices comprising the display device and the recording device, when the RF bypass switch is in a first switch state; and

a set-top box that is configurable to operate differently for each type of RF bypass switch of the plurality of types of switches.

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65. The system defined in claim 64 further comprising an interactive television program guide implemented at least in part on the set-top box.

- 66. The system defined in claim 64 wherein the RF bypass switch is configured to provide a processed signal to the recording device and an unprocessed signal to the display device.
- 67. The system defined in claim 64 wherein:

 the set-top box has an on/off state; and
 the RF bypass switch is further

 configured to change switch states when the set-top box changes its on/off state.
- 68. The system defined in claim 64 wherein:
 the television programming is provided
 to the set-top box via a plurality of signals
 the system further comprises an input
 device; and

the set-top box is further configured to provide the user with an opportunity to select which signal of the plurality of signals is bypassed by the RF bypass switch.

- 69. The system defined in claim 64 wherein the RF bypass switch is further configured to be disabled according to a user selectable setting.
- 70. A method for use in a television programming viewing system in which multiple types of RF bypass switches may be used in conjunction with a

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set-top box, and wherein television programming is provided to a number of viewers, the method comprising:

providing at least one unprocessed signal representing the television programming, with an RF bypass switch of a single type of switch from a plurality of different types of switches, to at least one device from the group of devices comprising the display device and the recording device; and

configuring a set-top box to operate differently for each type of RF bypass switch of the plurality of types of switches.

- 71. The method defined in claim 70 wherein configuring the set-top box to operate differently for each type of RF bypass switch of the plurality of types of switches comprises configuring the set-top box with an interactive television program guide to operate differently for each type of RF bypass switch of the plurality of types of switches.
- 72. The method defined in claim 70 wherein providing at least one unprocessed signal representing the television programming with an RF bypass switch of a single type of switch from a plurality of different types of switches, to at least one device from the group of devices comprising the display device and the recording device, comprises providing a processed signal to the recording device and an unprocessed signal to the display device with the RF bypass switch.
 - 73. The method defined in claim 70 wherein: the set-top box has an on/off state; and the method further comprises switching

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states of the RF bypass switch when the set-top box changes its on/off state.

74. The method defined in claim 70 further comprising:

providing the television programming to the set-top box via a plurality of signals; and providing a user with an opportunity to select which signal of the plurality of signals is bypassed by the RF bypass switch.

- 75. The method defined in claim 70 further comprising disabling the RF bypass switch according to a user selectable setting.
- 76. A television programming viewing system in which multiple types of RF bypass switches may be used in conjunction with a set-top box, and wherein television programming is provided to a number of viewers, the system comprising:

switching means for providing at least one unprocessed signal representing the television programming to at least one device from the group of devices comprising the display device and the recording device, wherein the switching means is a single type of switching means from a plurality of different types of switching means; and

means for operating a set-top box differently for each type of switching means.

77. The system defined in claim 76 wherein configuring the set-top box to operate differently for each type of RF bypass switch of the plurality of types

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of switches comprises configuring the set-top box with an interactive television program guide to operate differently for each type of switching means of the plurality of types of switches.

- 78. The system defined in claim 76 wherein the means for providing at least one unprocessed signal representing the television programming, with an RF bypass switch of a single type of switch from a plurality of different types of switches, to at least one device from the group of devices comprising the display device and the recording device, comprises means for providing a processed signal to the recording device and an unprocessed signal to the display device with the RF bypass switch.
- 79. The system defined in claim 76 wherein:
 the set-top box has an on/off state; and
 the system further comprises means for
 switching states of the RF bypass switch when the settop box changes its on/off state.
- 80. The system defined in claim 76 further comprising:

means for providing the television programming to the set-top box via a plurality of signals; and

means for providing a user with an opportunity to select which signal of the plurality of signals is bypassed by the RF bypass switch.

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81. The system defined in claim 76 further comprising means for disabling the RF bypass switch according to a user selectable setting.

<u>10</u>

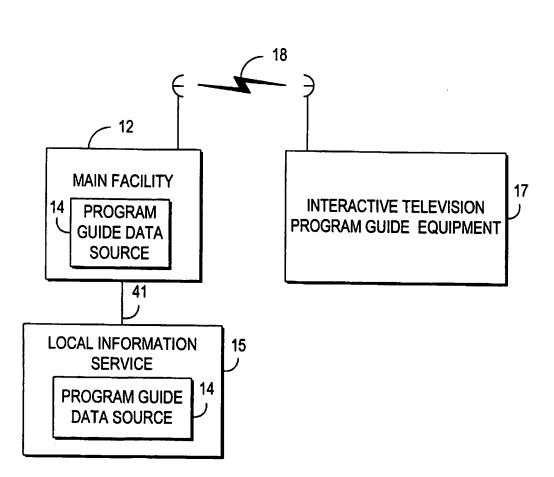


FIG. 1

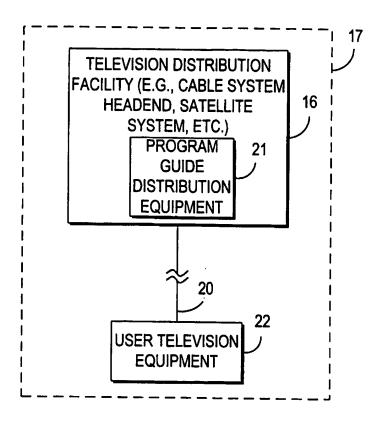


FIG. 2a

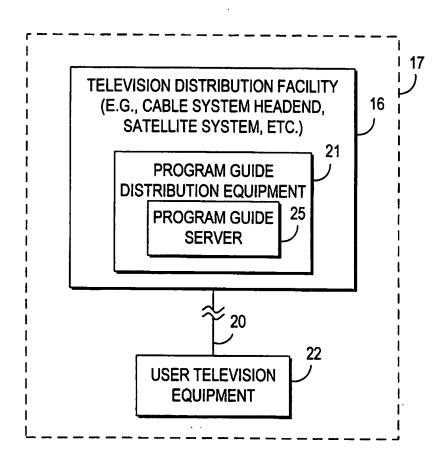


FIG. 2b

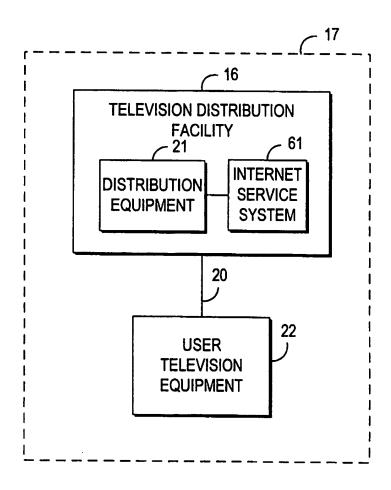


FIG. 2c

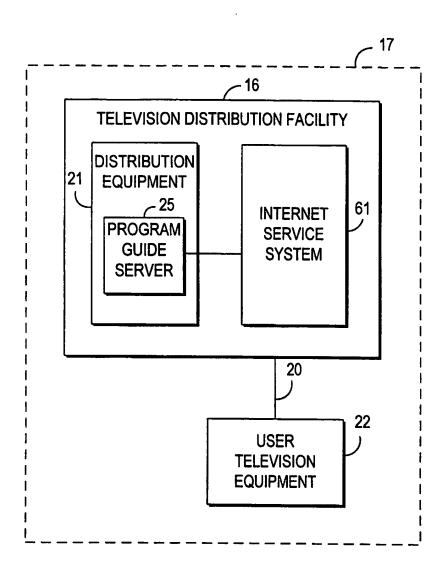


FIG. 2d

<u>22</u>

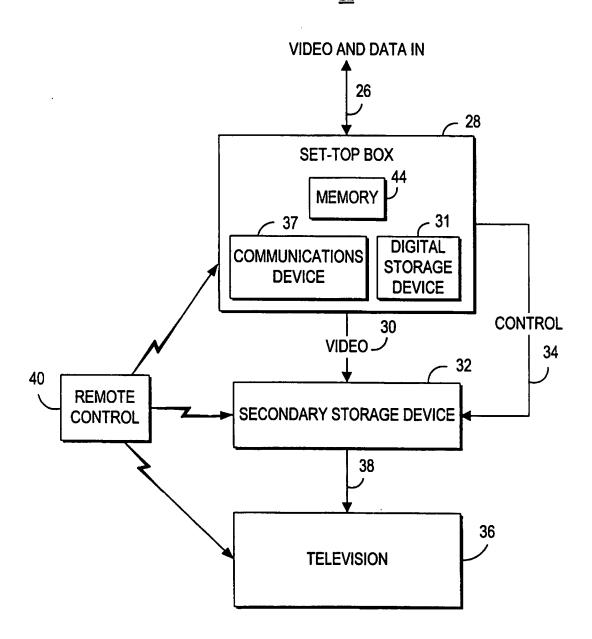


FIG. 3

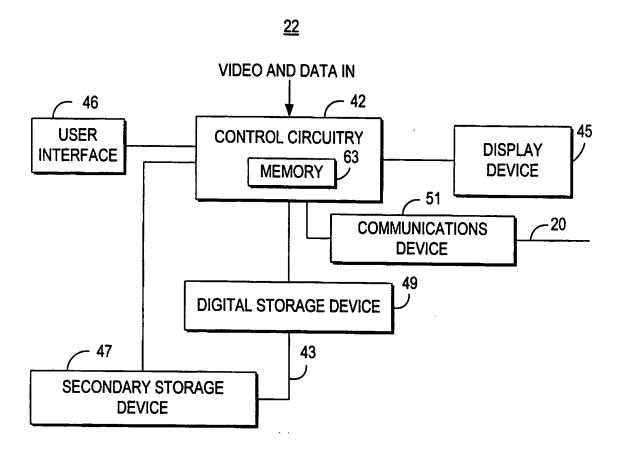


FIG. 4

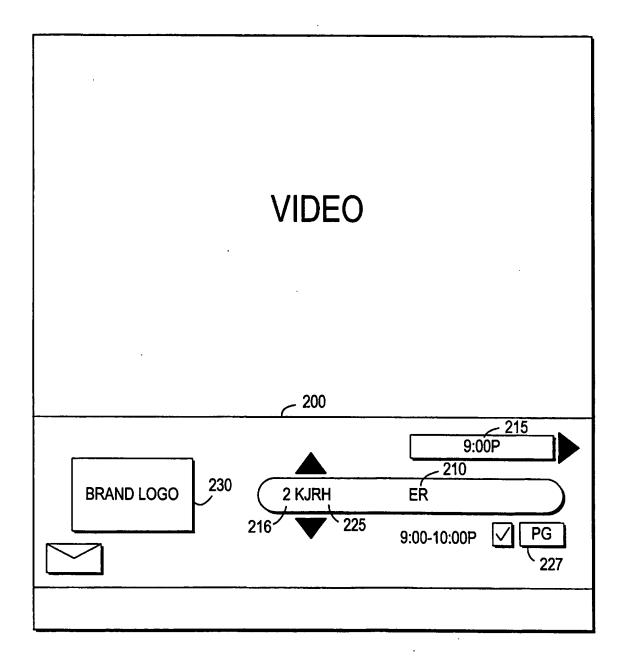


FIG. 5a

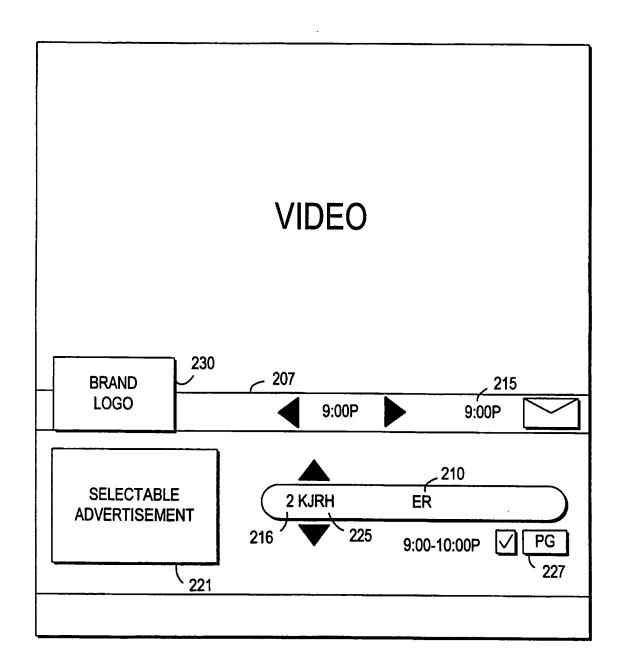


FIG. 5b

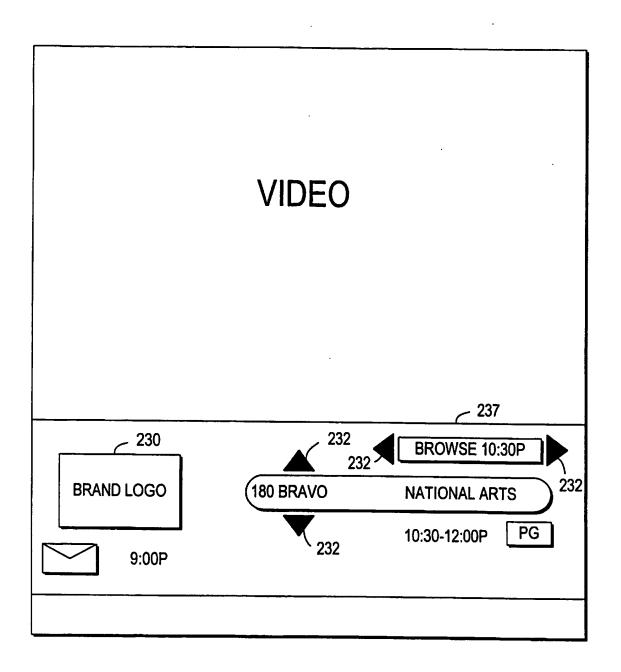


FIG. 6a

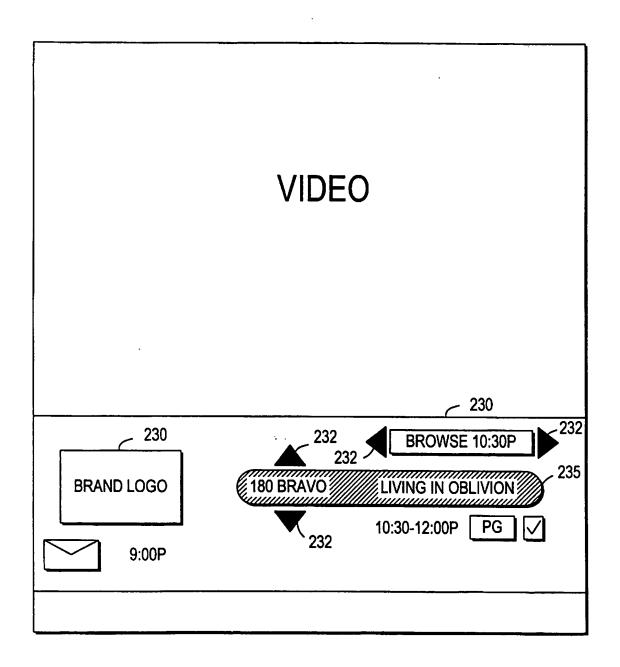


FIG. 6b

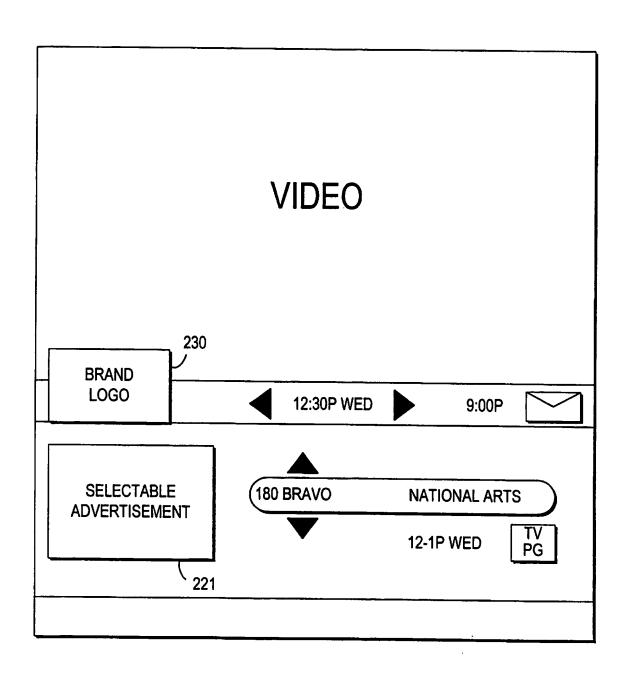


FIG. 6c

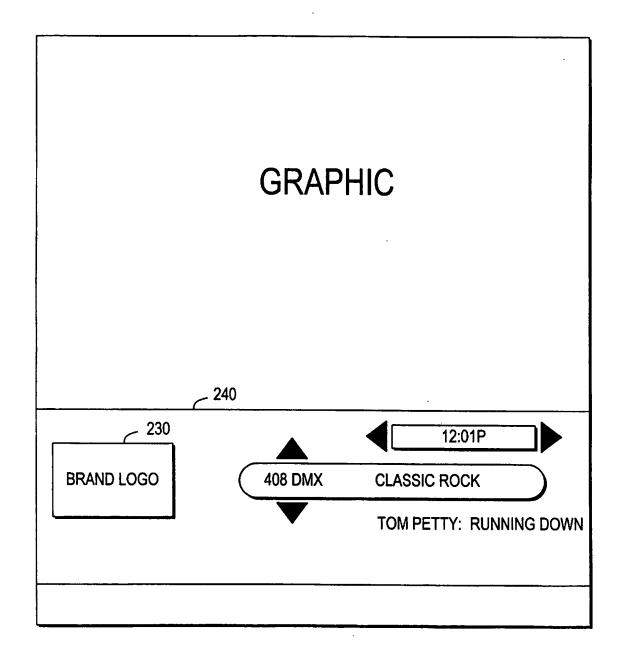


FIG. 7

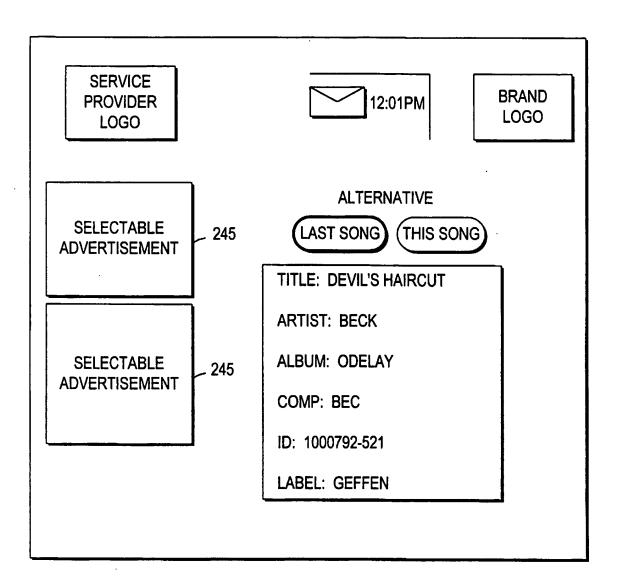


FIG. 8

100

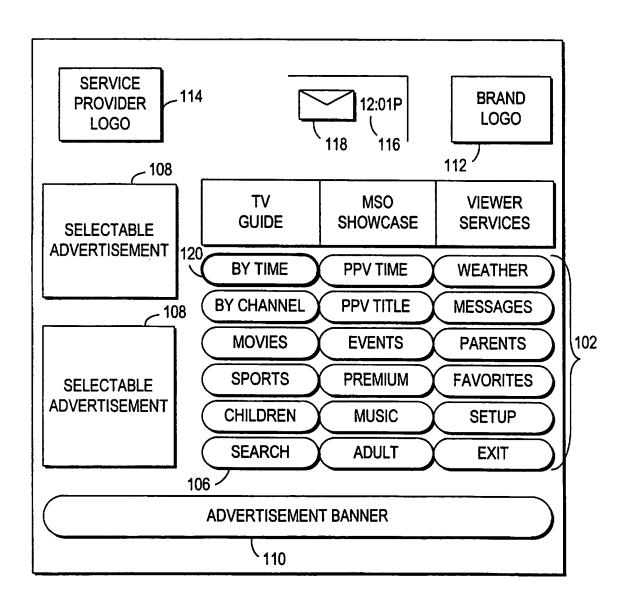


FIG. 9

<u>130</u>

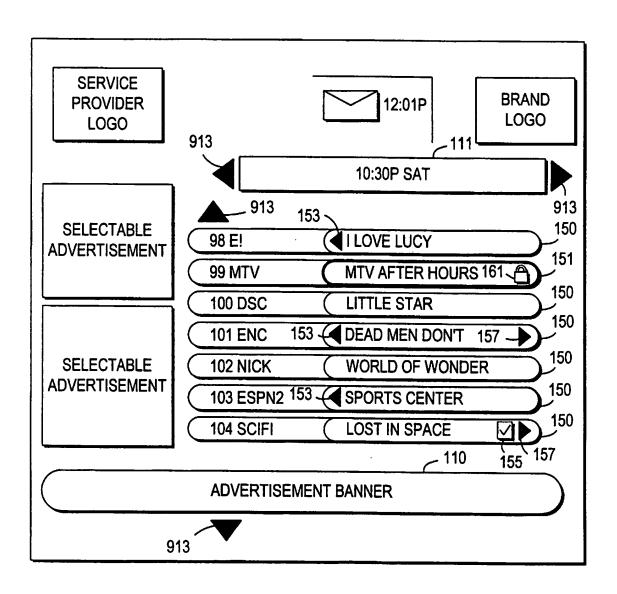


FIG. 10

140

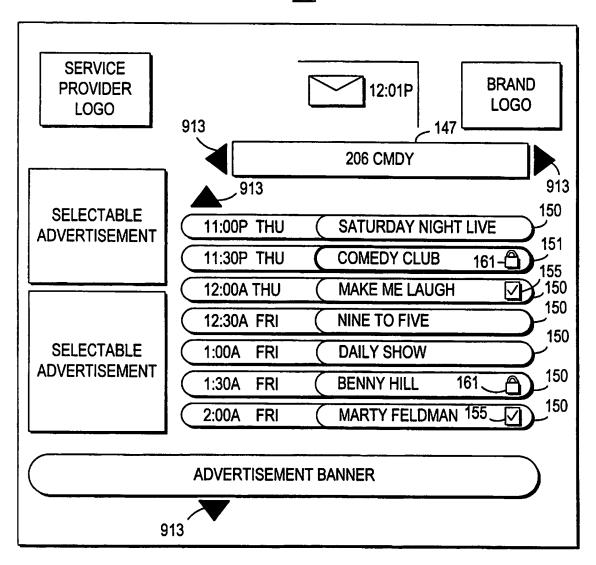


FIG. 11a

<u>143</u>

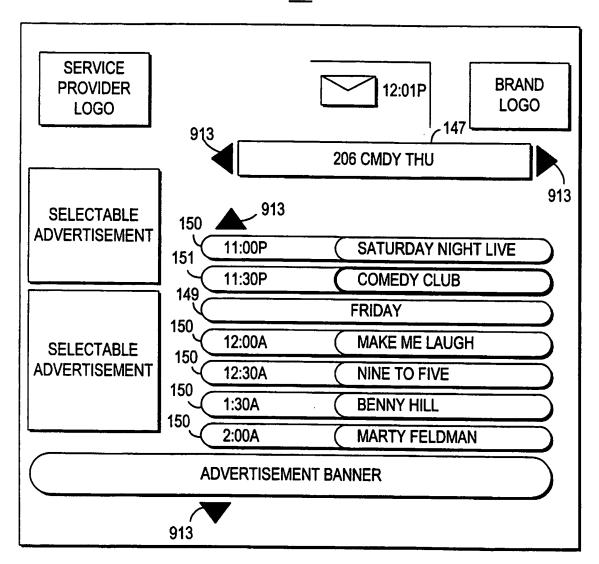


FIG. 11b

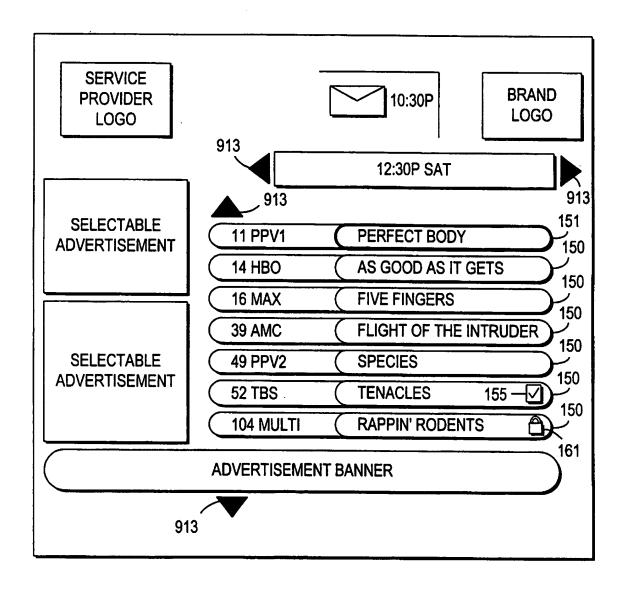


FIG. 12a

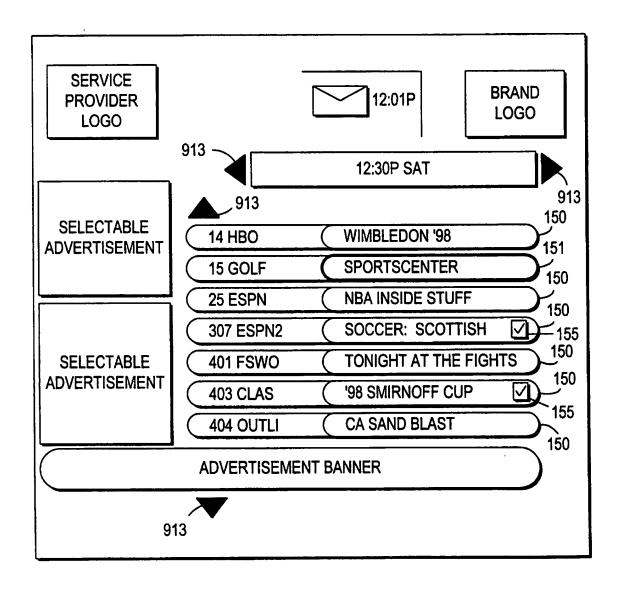


FIG. 12b

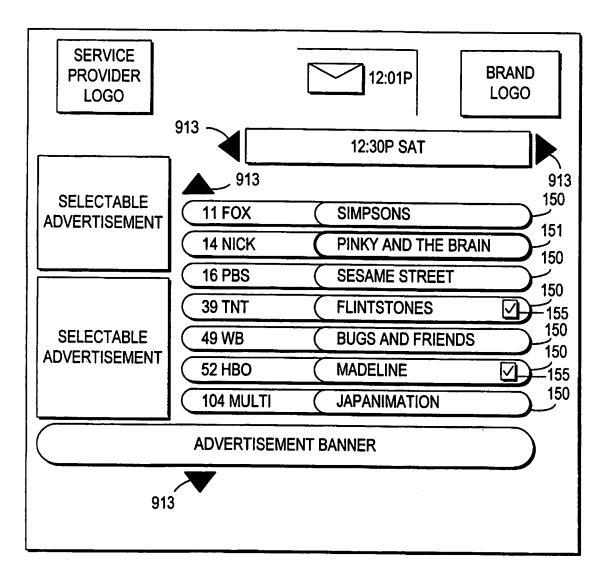


FIG. 12c

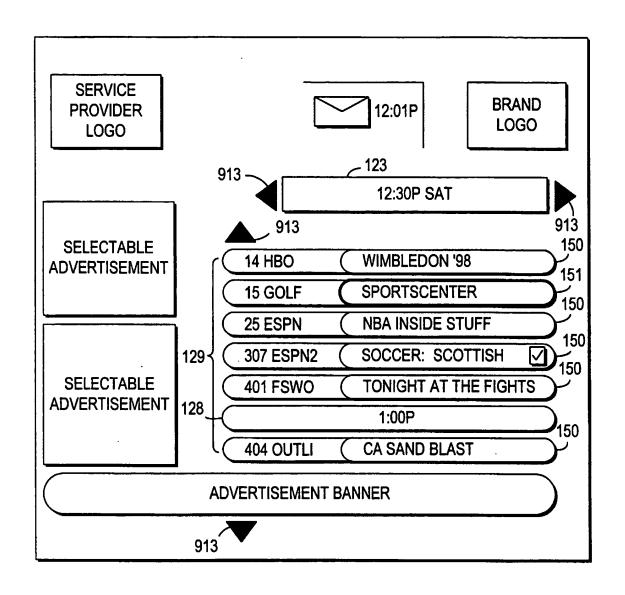


FIG. 12d

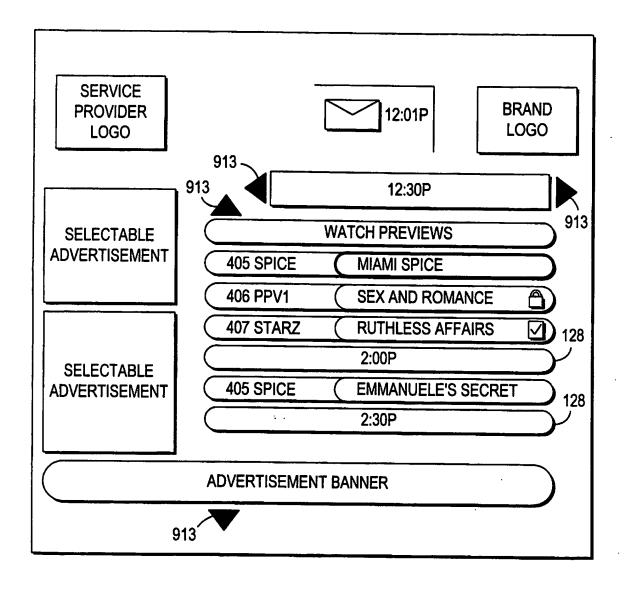


FIG. 12e

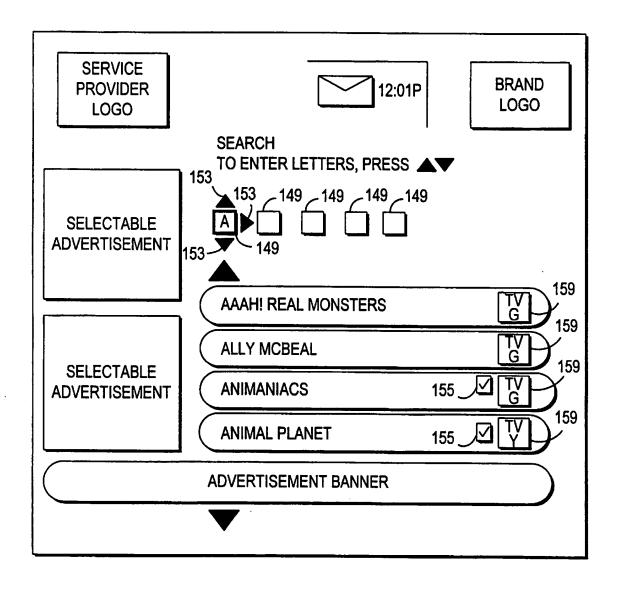


FIG. 13a

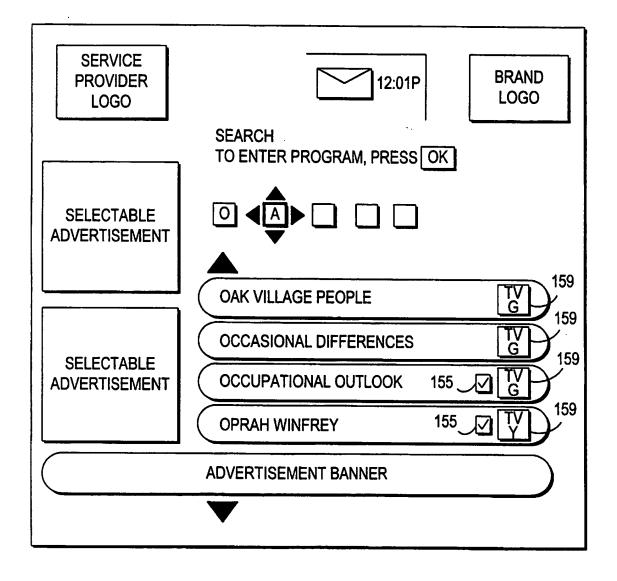


FIG. 13b

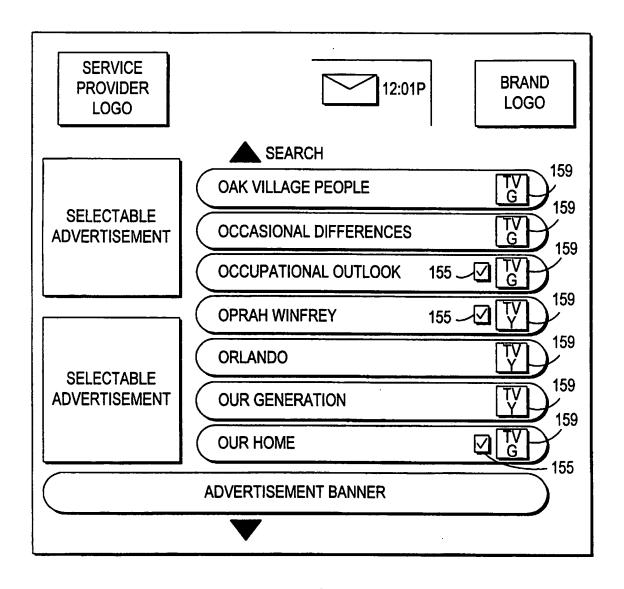


FIG. 13c

<u>180</u>

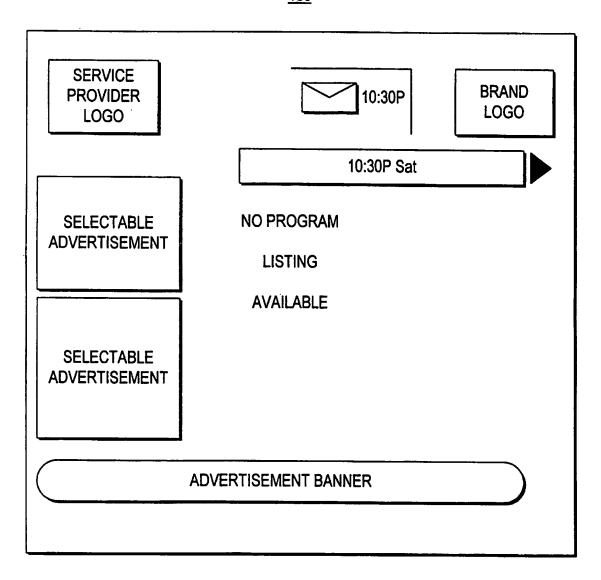


FIG. 14

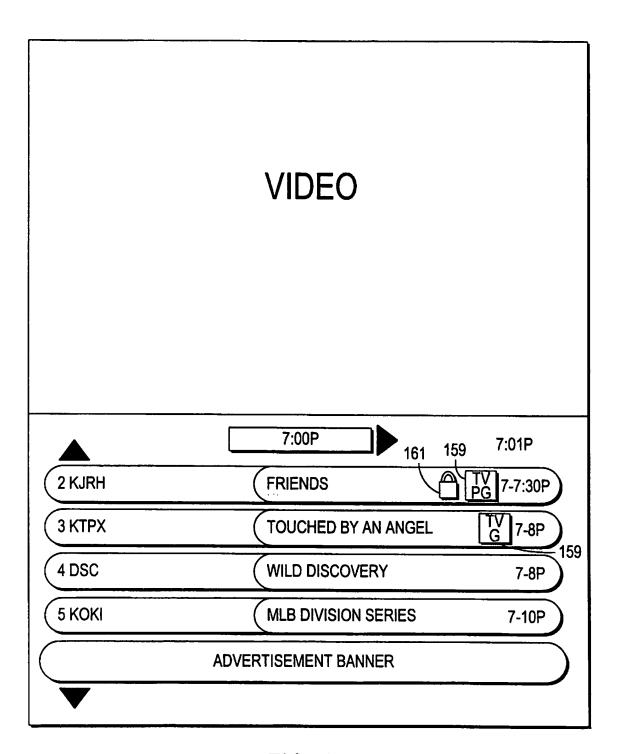


FIG. 15

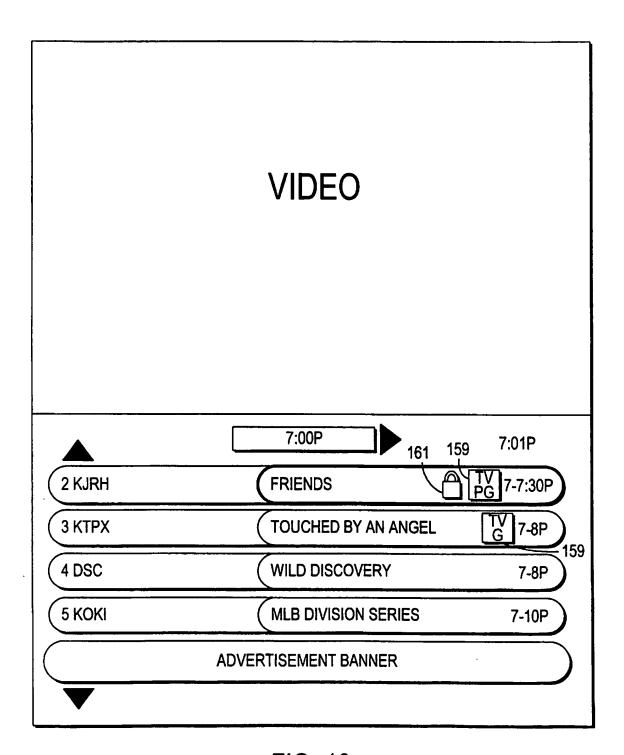


FIG. 16

100

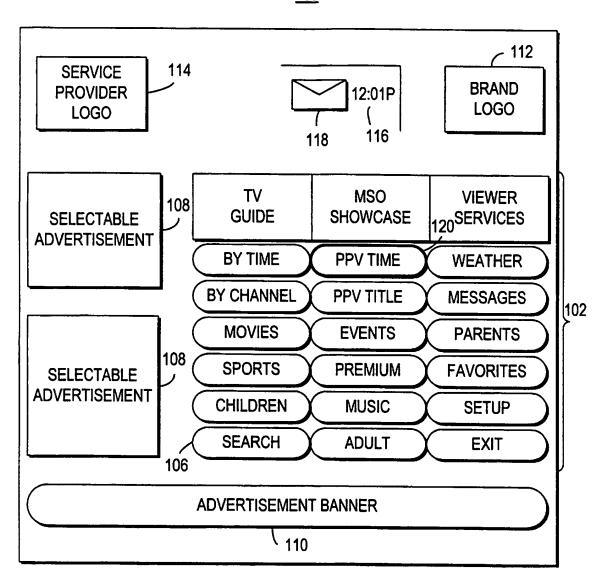


FIG. 17

<u>201</u>

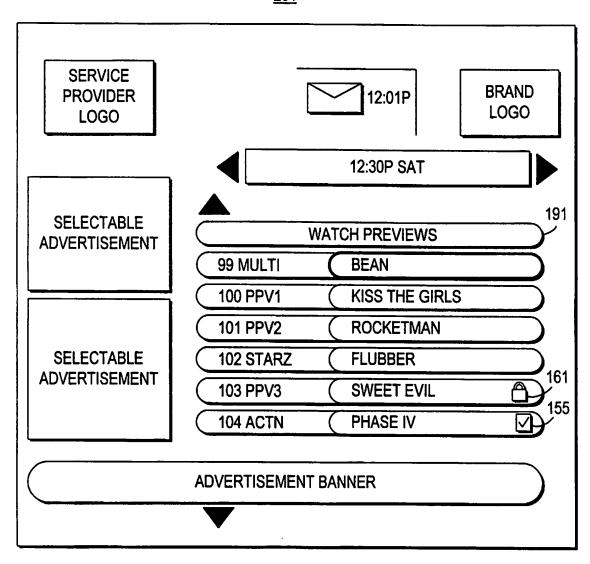


FIG. 18

<u>203</u>

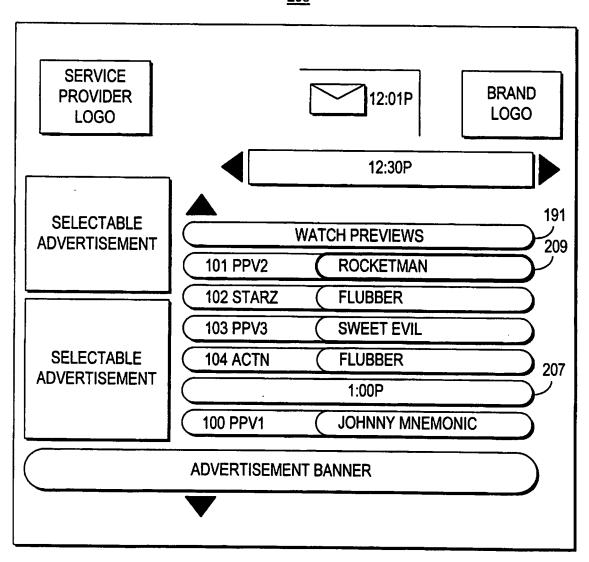


FIG. 19

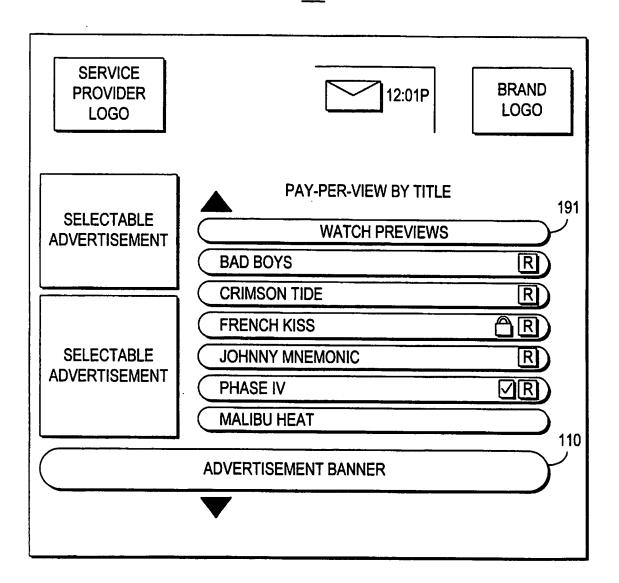


FIG. 20

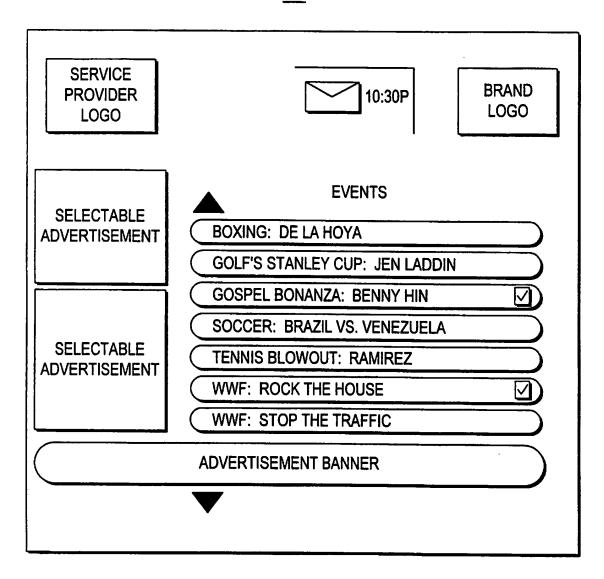


FIG. 21

<u>231</u>

SERVICE PROVIDER LOGO	10:30P BRAND LOGO			
SELECTABLE ADVERTISEMENT	PREMIUM OFFERS 14 HBO HOME BOX OFFICE 15 MAX CINEMAX			
SELECTABLE ADVERTISEMENT	17 ENC ENCORE NETWORK 18 SHOW SHOWTIME			
ADVERTISEMENT BANNER				

FIG. 22

<u>241</u>

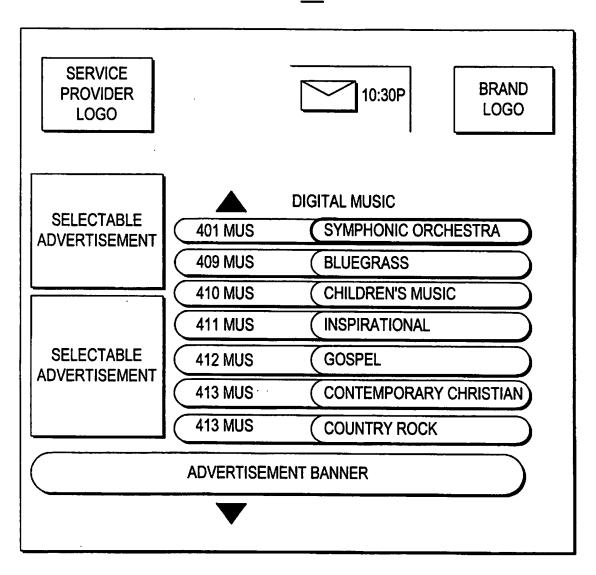


FIG. 23

<u>251</u>

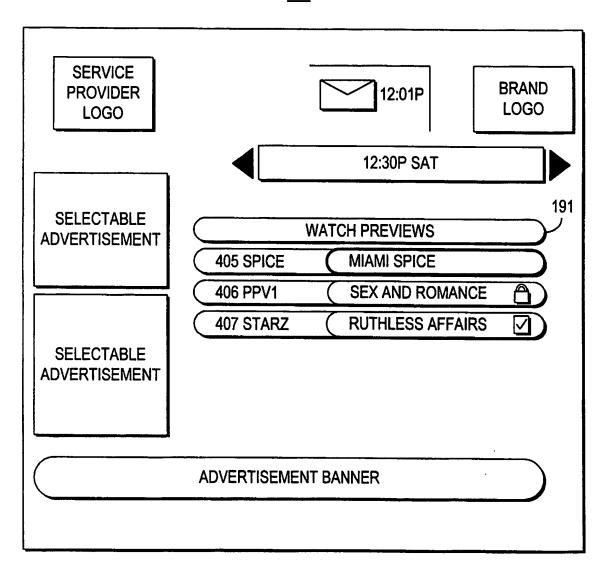


FIG. 24

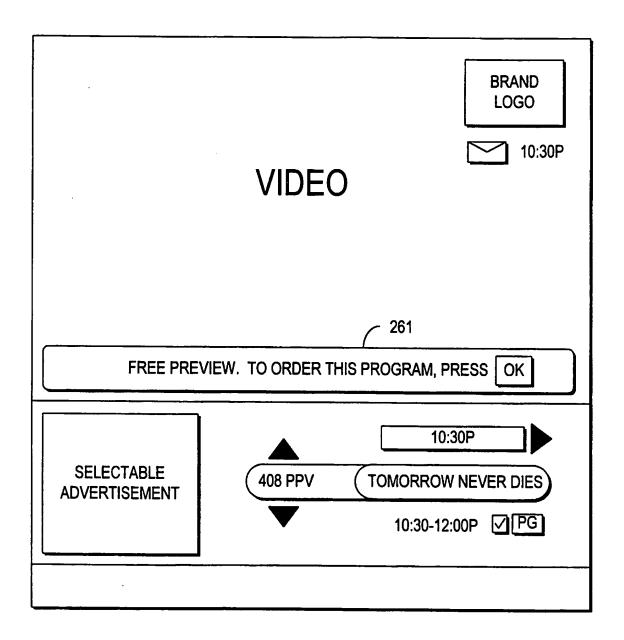


FIG. 25

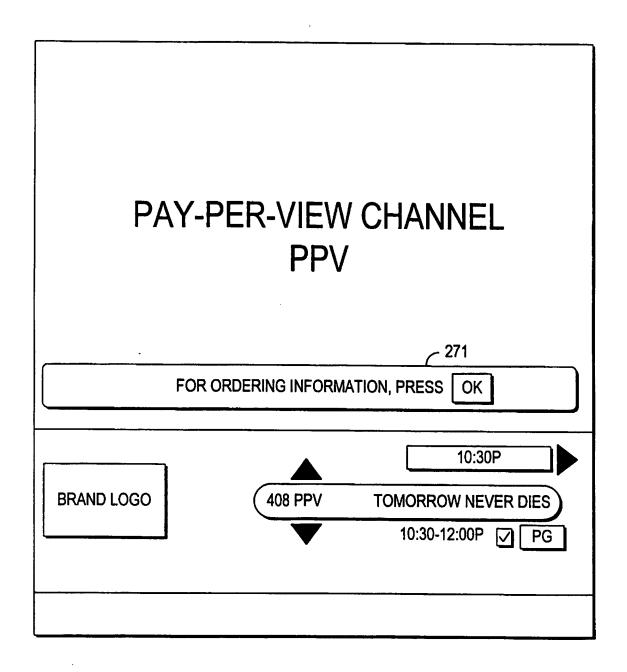


FIG. 26

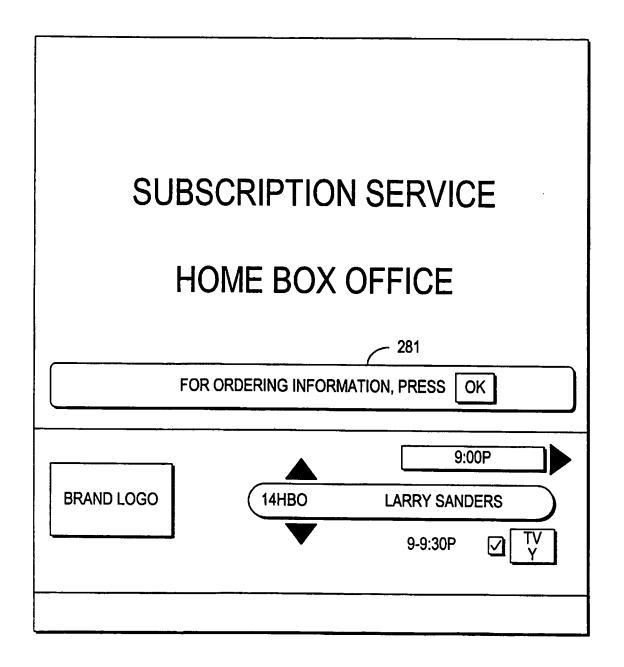


FIG. 27

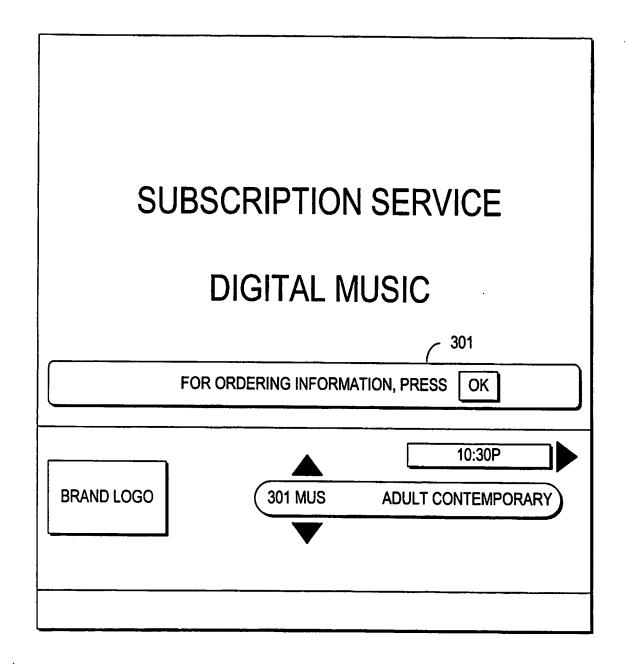


FIG. 28

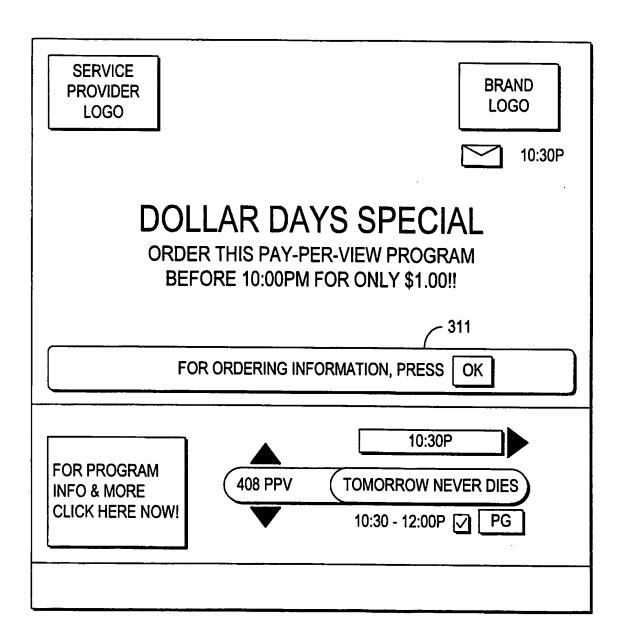


FIG. 29



FIG. 30

<u>331</u>



FIG. 31

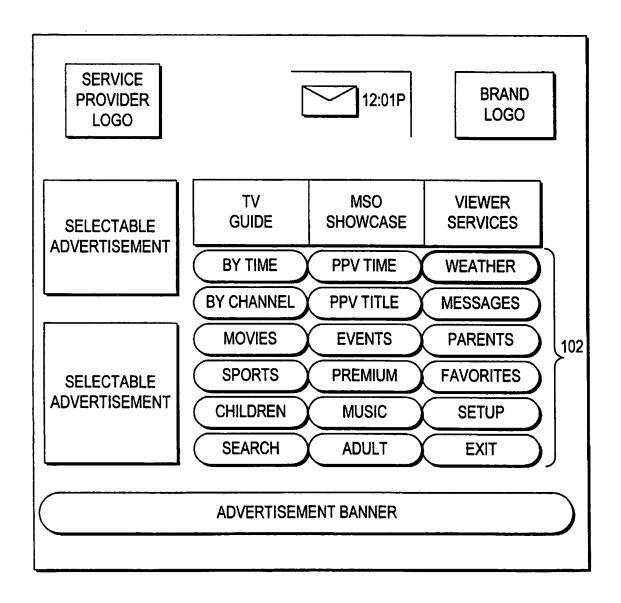


FIG. 32

<u>351</u>

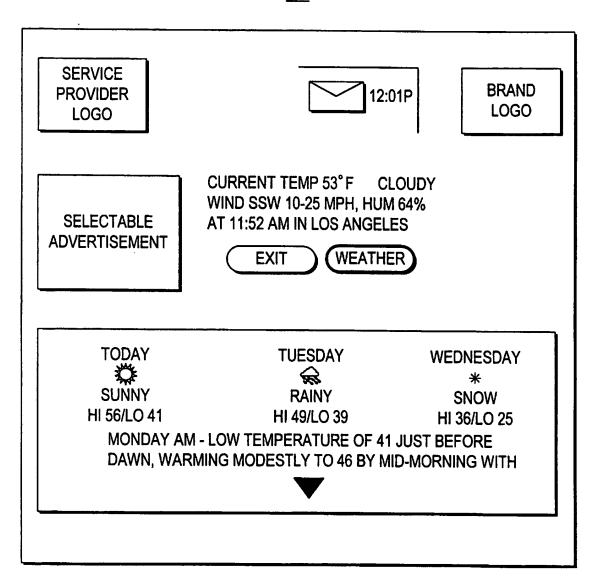


FIG. 33a

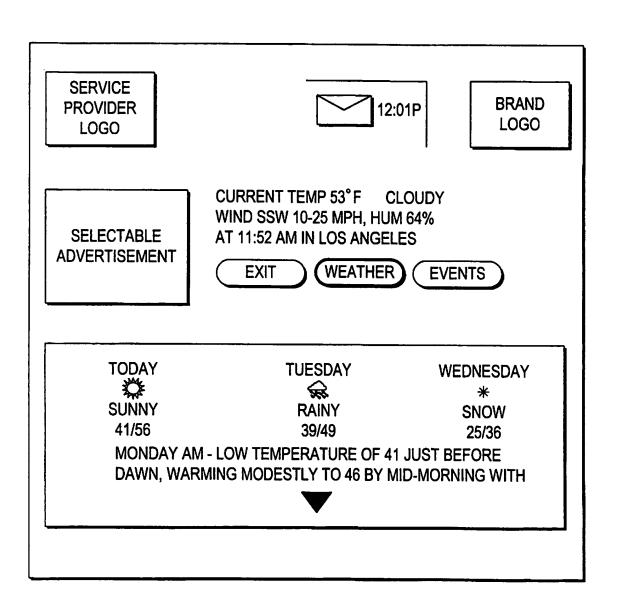


FIG. 33b

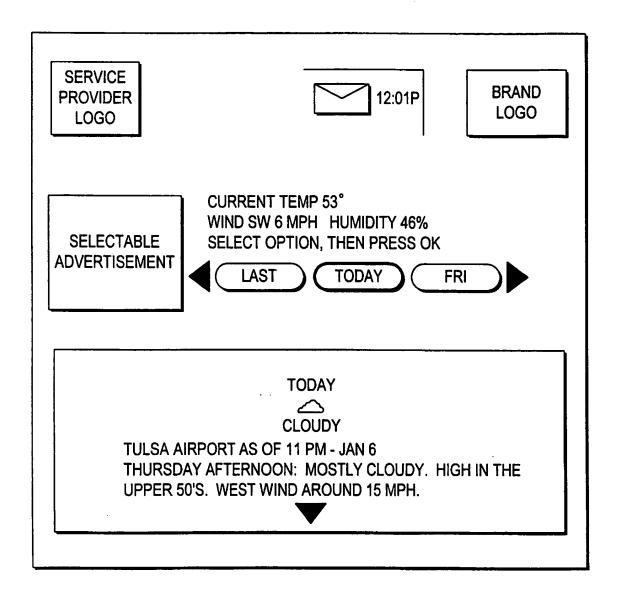


FIG. 33c

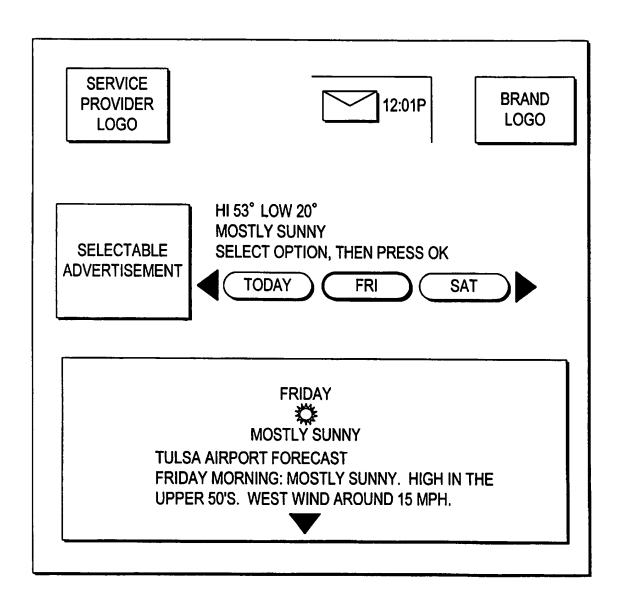


FIG. 33d

SERVICE PROVIDER LOGO	12:01P	BRAND LOGO
SELECTABLE ADVERTISEMENT	CURRENT TEMP 53°F CLOUDY TO EXIT THIS SCREEN, PRESS OK EXIT WEATHER	

FIG. 33e

<u>361</u>

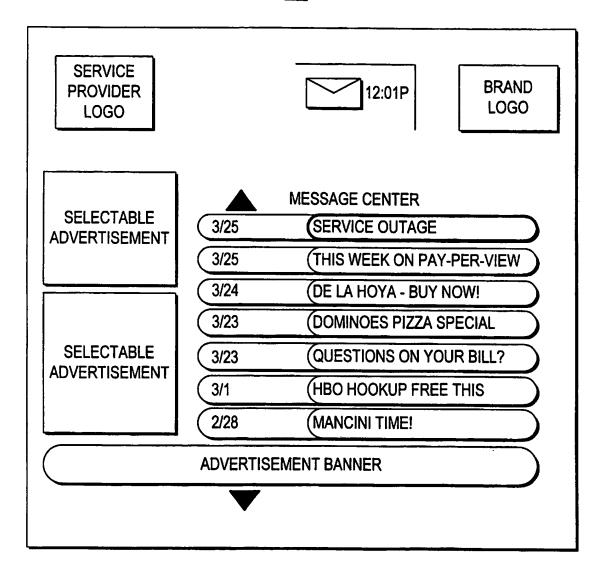


FIG. 34

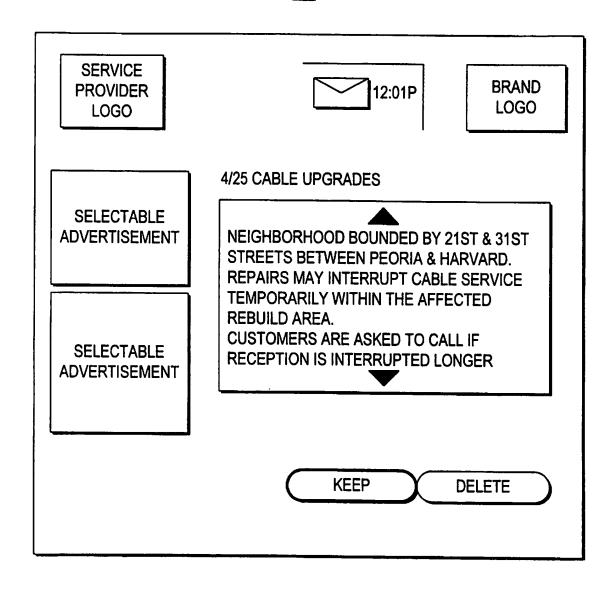


FIG. 35

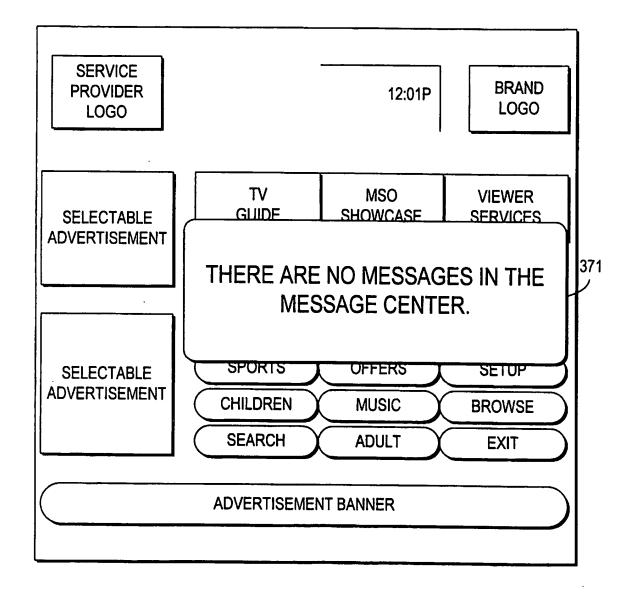


FIG. 36

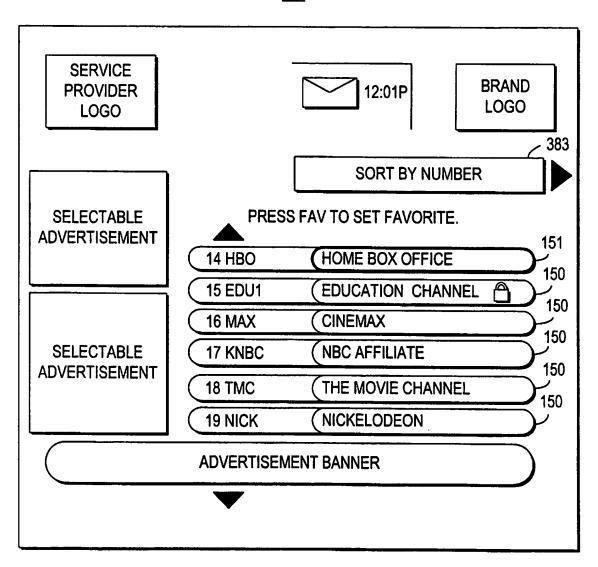


FIG. 37

<u>381</u>

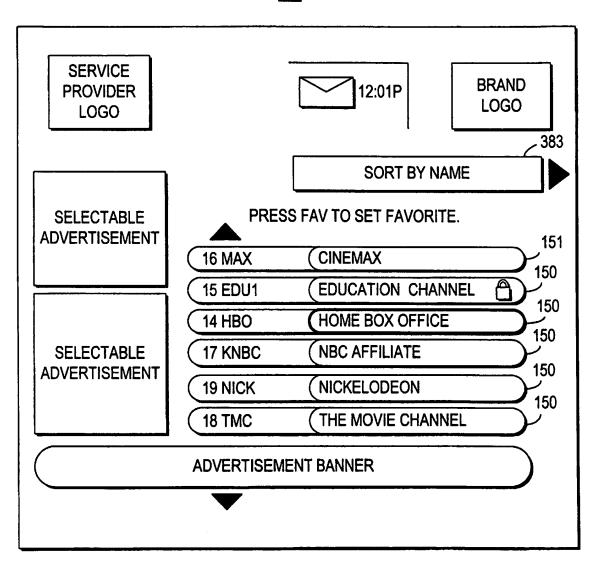


FIG. 38

PCT/US99/28128

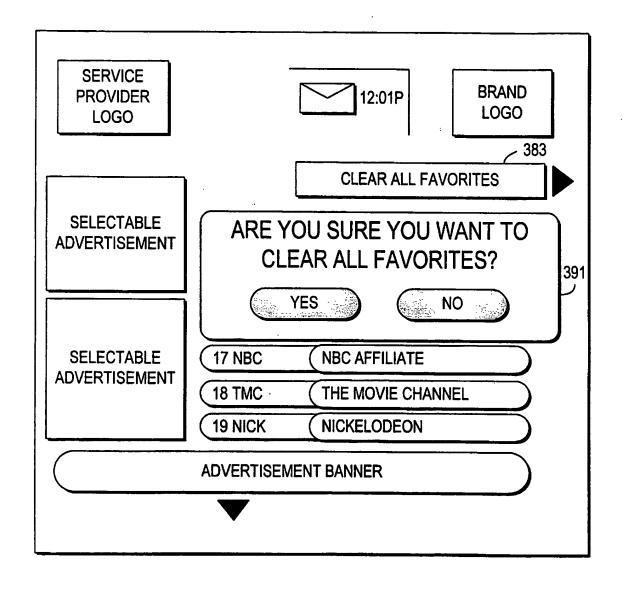


FIG. 39

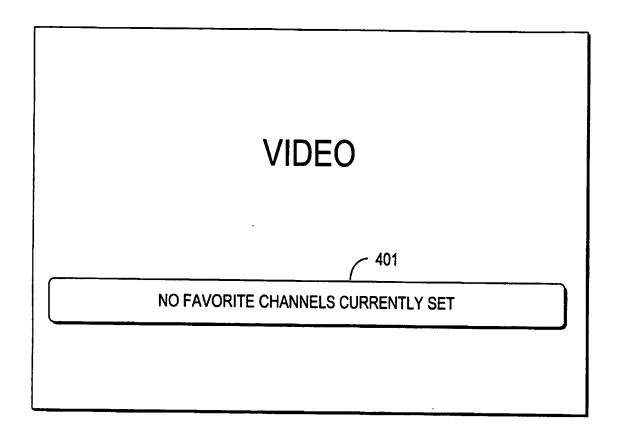


FIG. 40

<u>411</u>

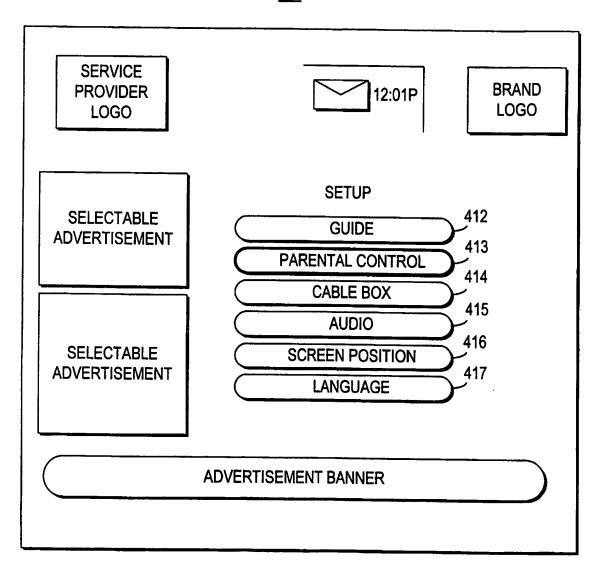


FIG. 41

<u>421</u>

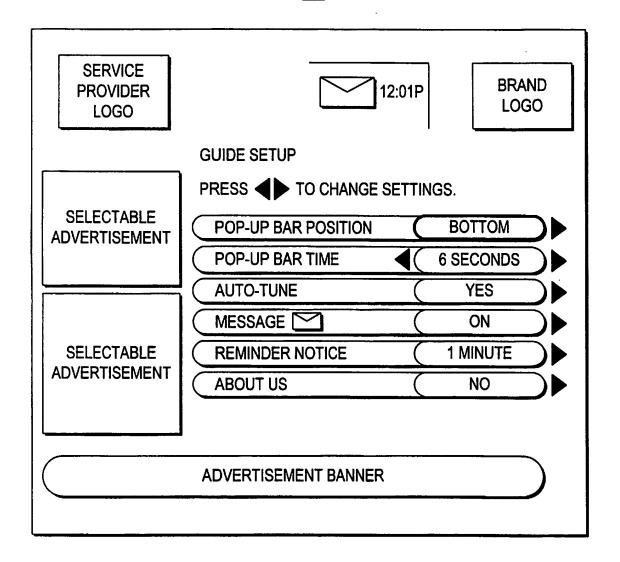


FIG. 42

<u>431</u>

12:01P BRAND LOGO

ABOUT THIS GUIDE

THIS PRODUCT IS COVERED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,635,987; 5,253,066; 5,781,246; 5,576,755; 5,629,733; 5,666,645; 5,548,338; 5,760,821; 5,652,613

FIG. 43

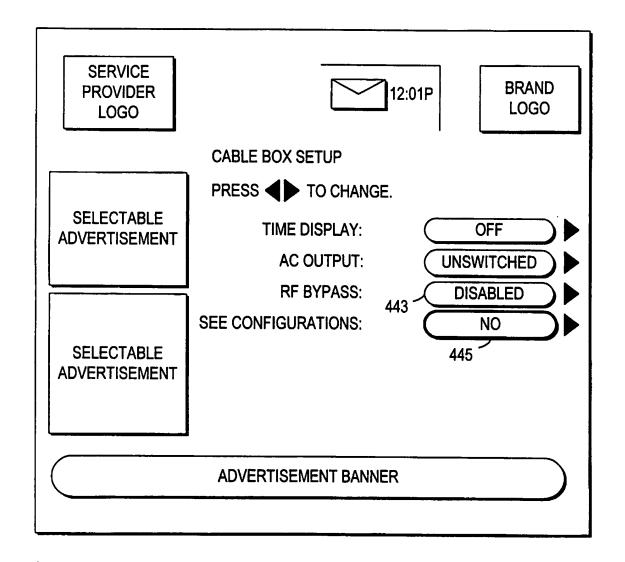


FIG. 44

<u>451</u>

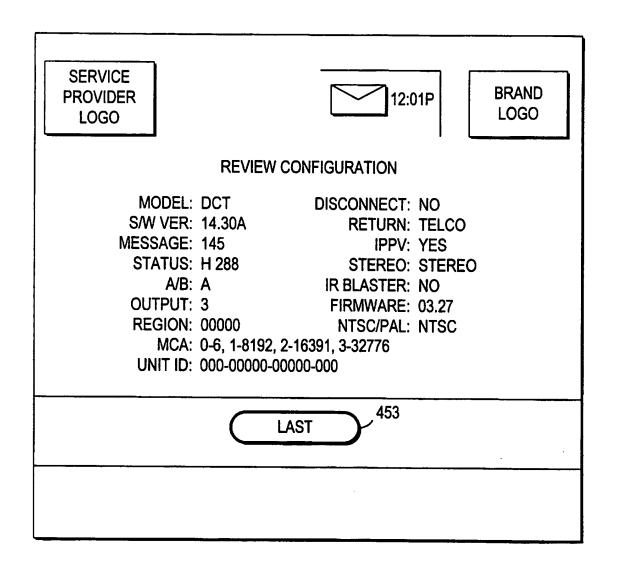


FIG. 45

<u>461</u>

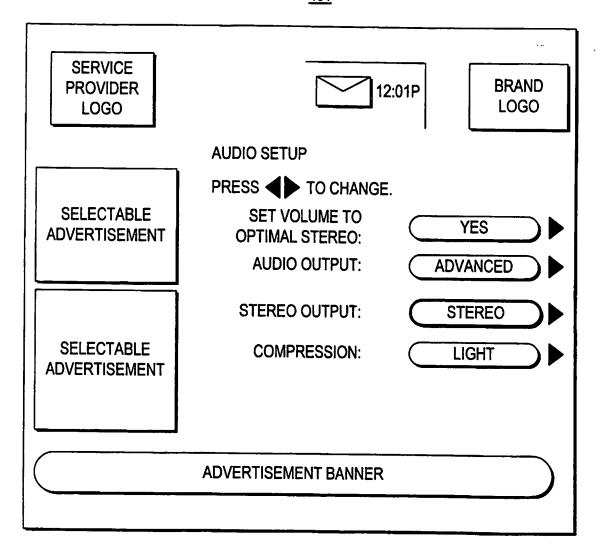


FIG. 46

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<u>471</u>

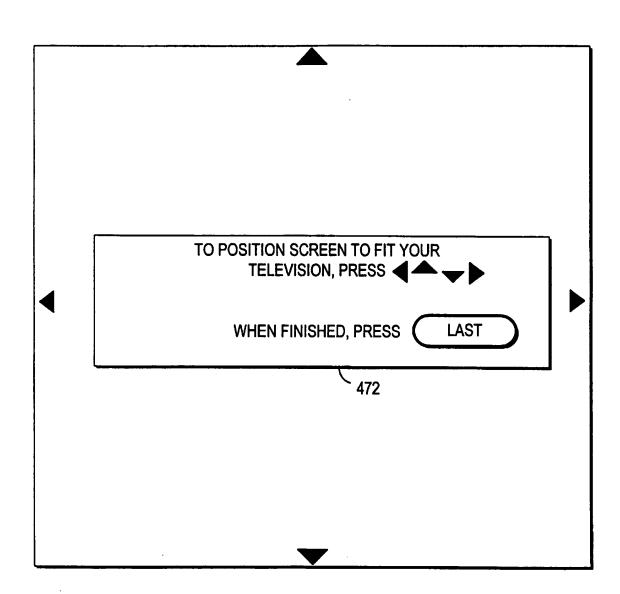


FIG. 47

WO 00/33560 PCT/US99/28128

65/129

<u>481</u>

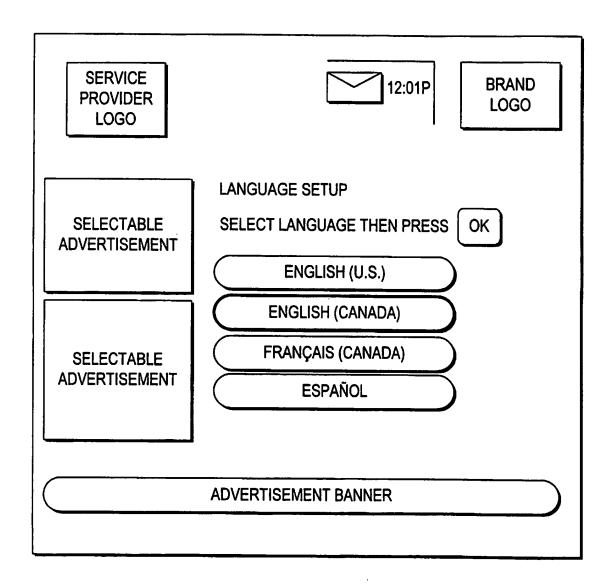


FIG. 48

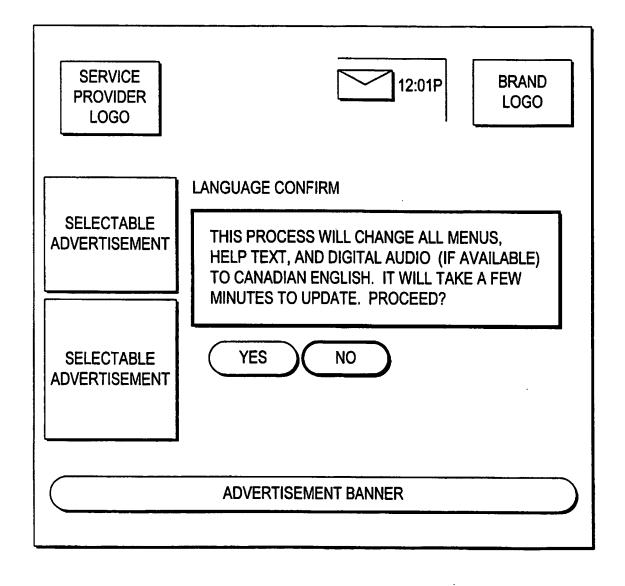


FIG. 49

<u>501</u>

SERVICE PROVIDER LOGO	12:01P	BRAND LOGO		
SELECTABLE ADVERTISEMENT	PARENTAL CONTROL SETUP ENTER NEW PARENTAL CONTROL CODE: ENTER NEW			
SELECTABLE ADVERTISEMENT	PURCHASE CODE:			
ADVERTISEMENT BANNER				

FIG. 50

<u>511</u>

SERVICE PROVIDER LOGO	12:01P	BRAND LOGO	
	PARENTAL CONTROL SETUP		
SELECTABLE ADVERTISEMENT	TO CLEAR, ENTER CURRENT PARENTAL CONTROL CODE:		
	TO CLEAR, ENTER CURRENT PURCHASE CODE:		
SELECTABLE ADVERTISEMENT	IF POWER IS LOST, WOULD YOU LIKE TO LOCK ALL PROGRAMS UNTIL RATINGS AND TITLES ARE RESTORED?	513 YES	
ADVERTISEMENT BANNER			

FIG. 51

<u>521</u>

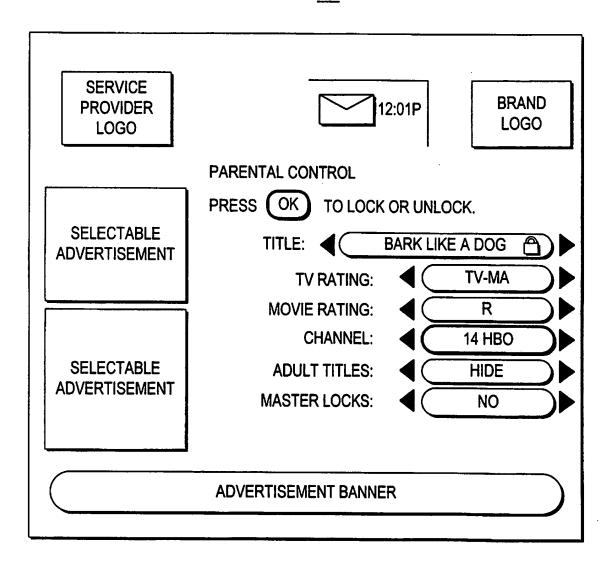


FIG. 52

<u>531</u>

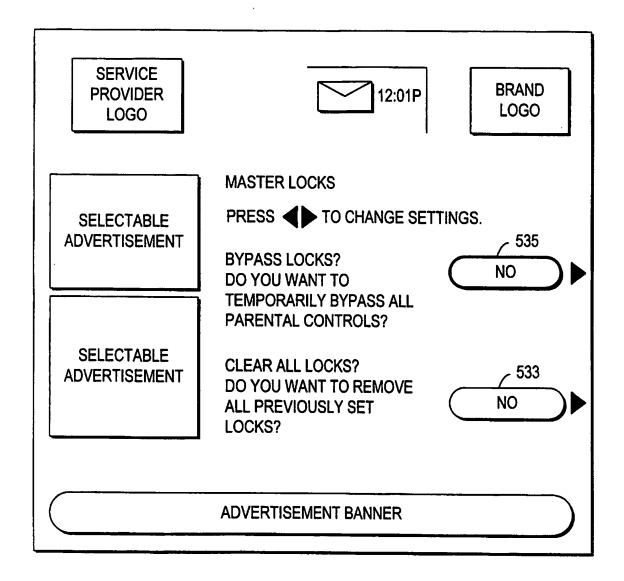


FIG. 53

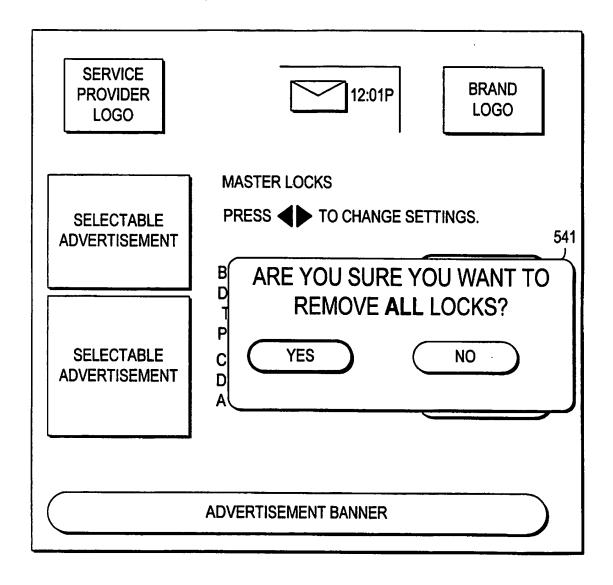


FIG. 54

<u>551</u>

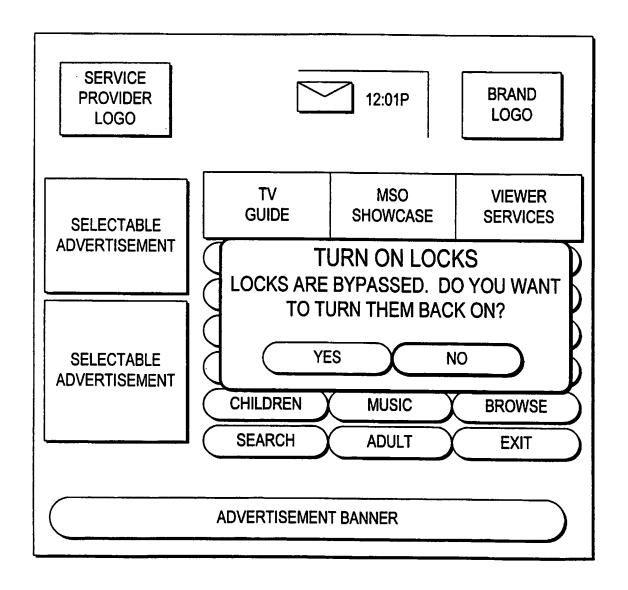


FIG. 55

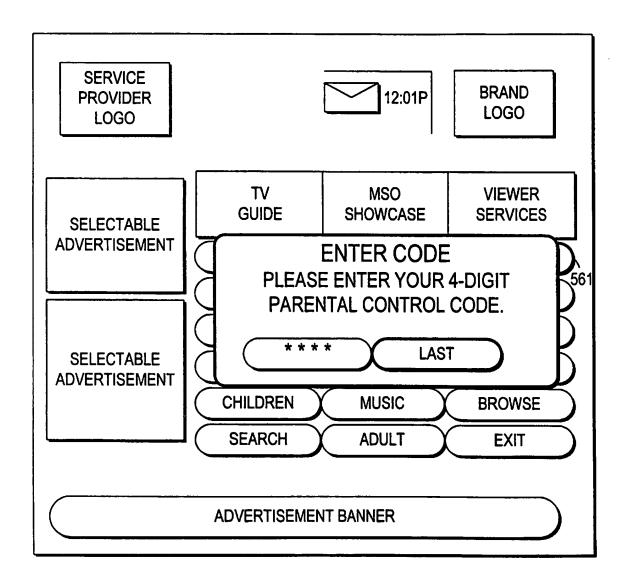


FIG. 56

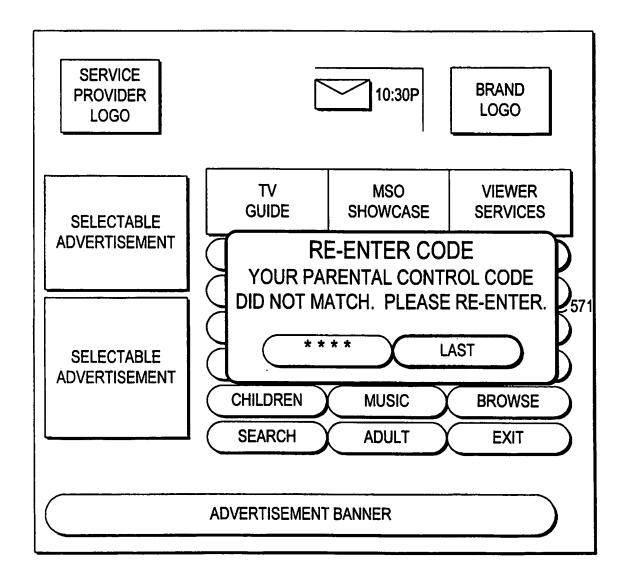


FIG. 57

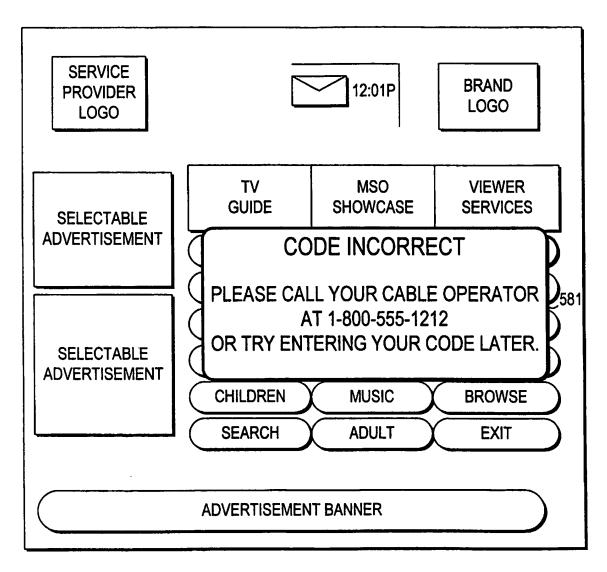


FIG. 58

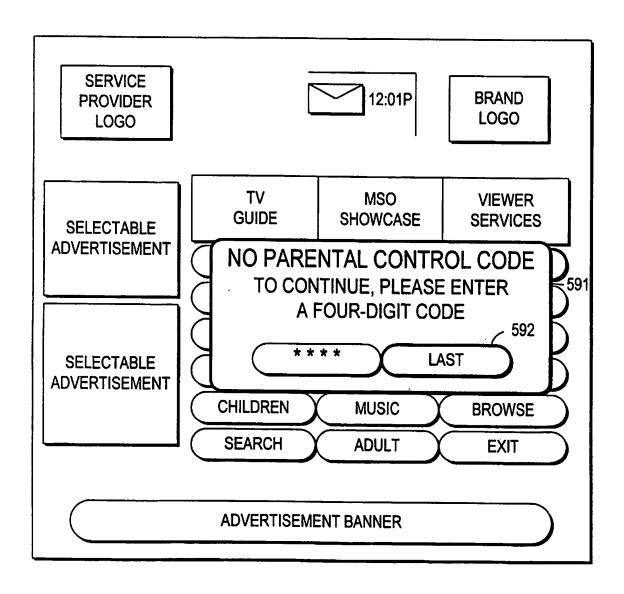


FIG. 59

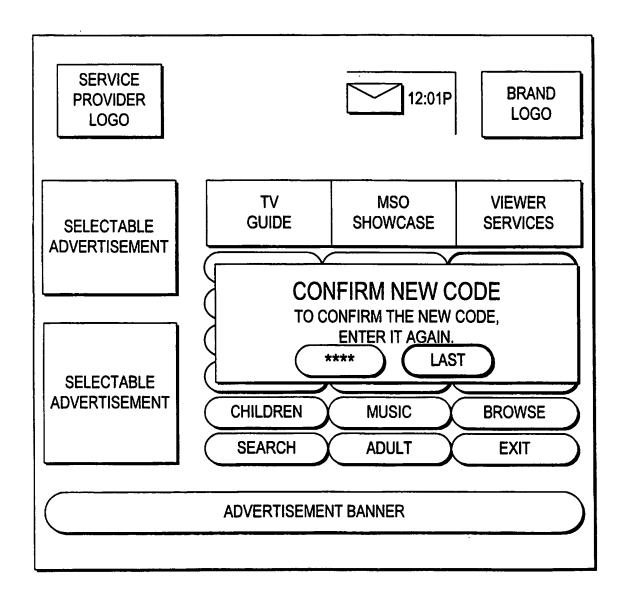


FIG. 60

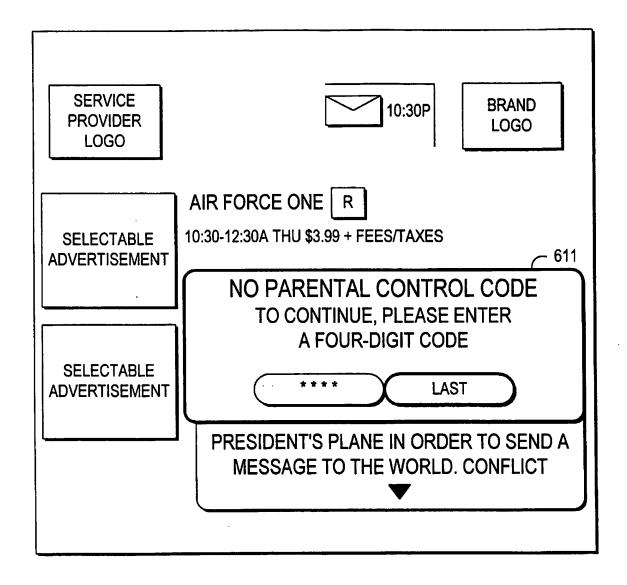


FIG. 61

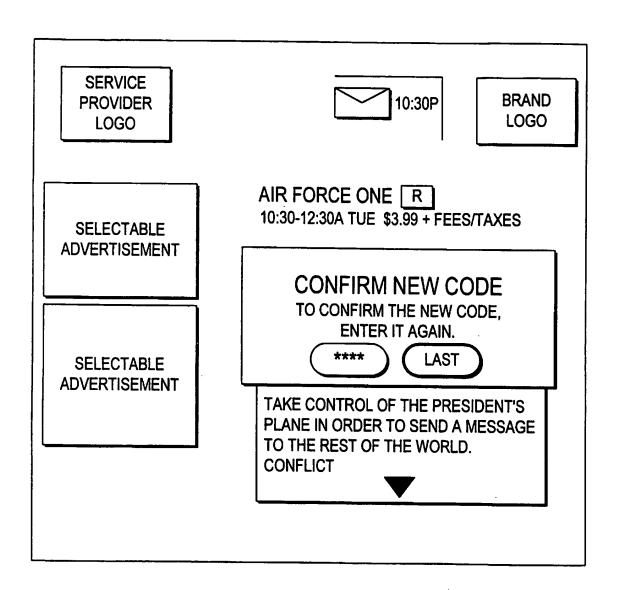


FIG. 62

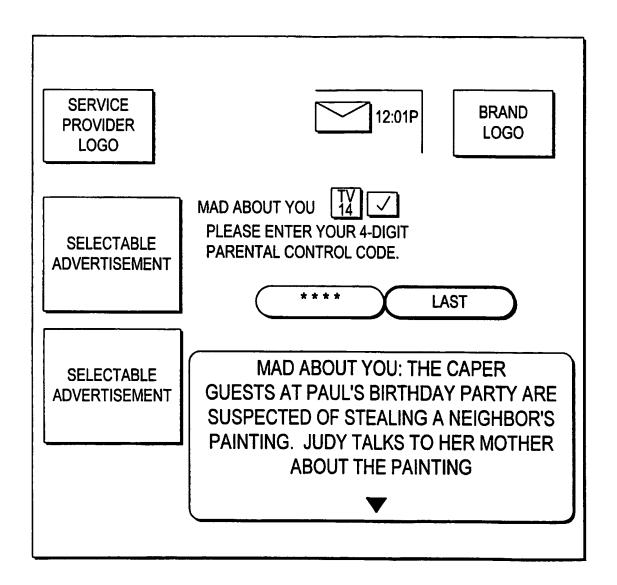


FIG. 63

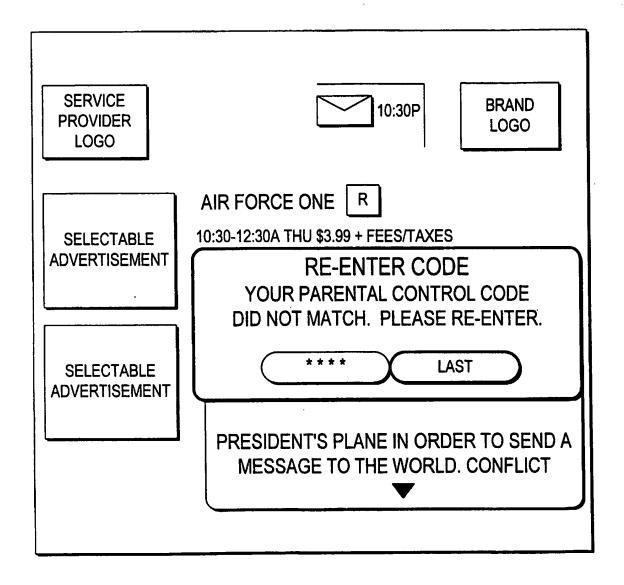


FIG. 64

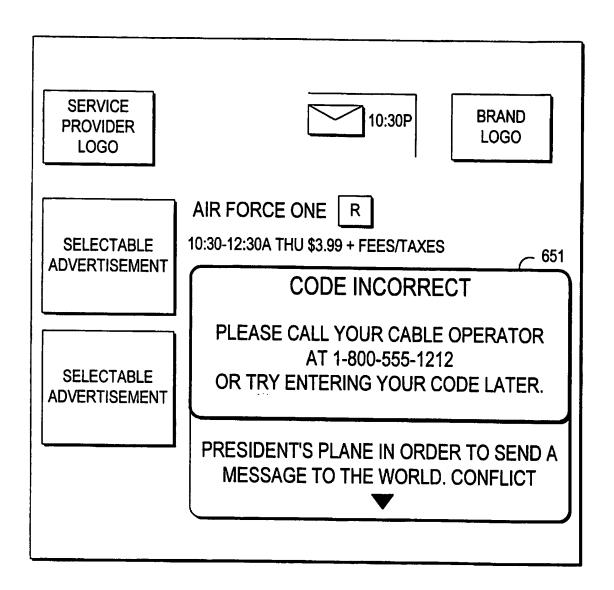


FIG. 65

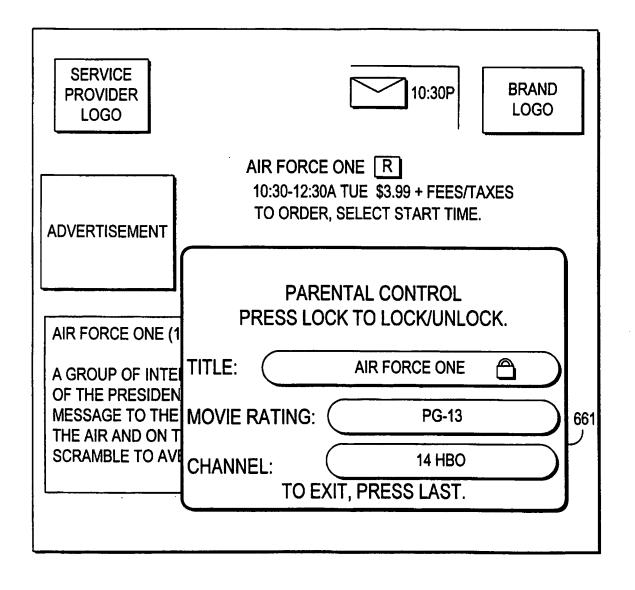


FIG. 66

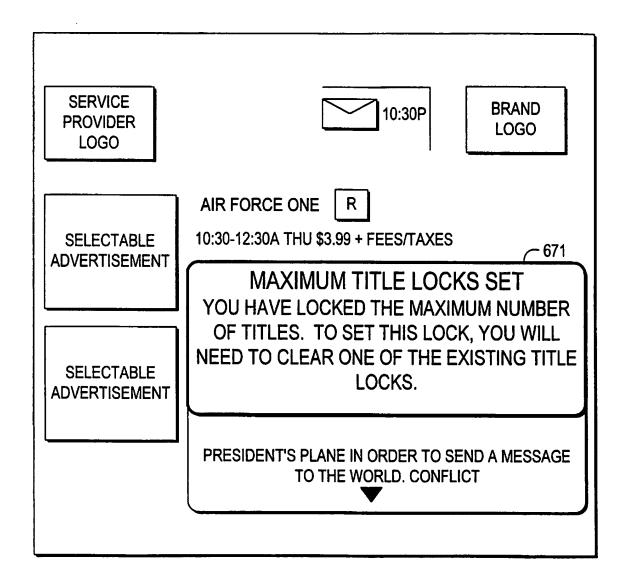


FIG. 67

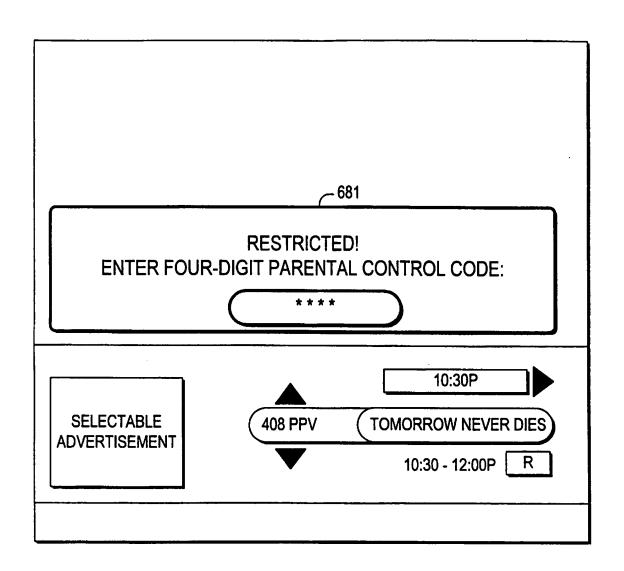


FIG. 68

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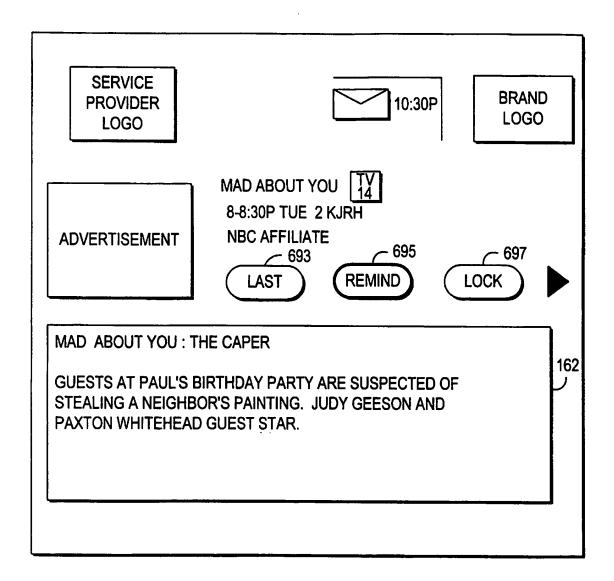


FIG. 69

<u>701</u>

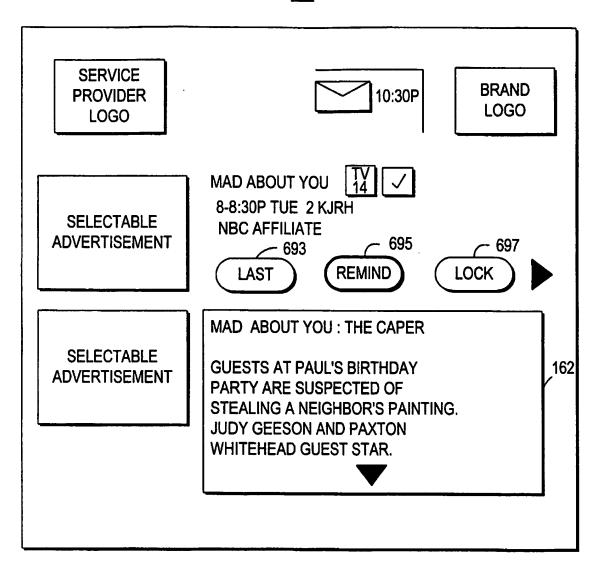


FIG. 70a

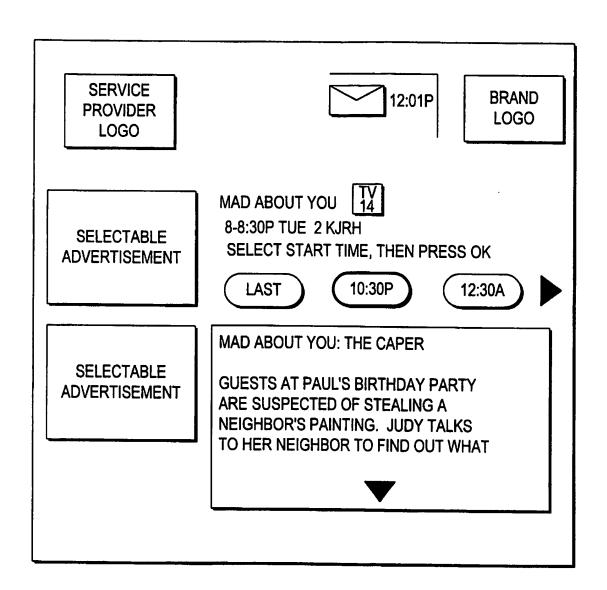


FIG. 70b

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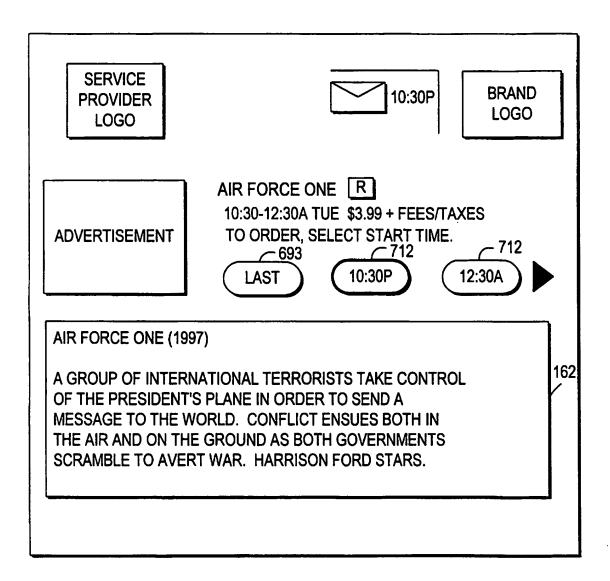


FIG. 71

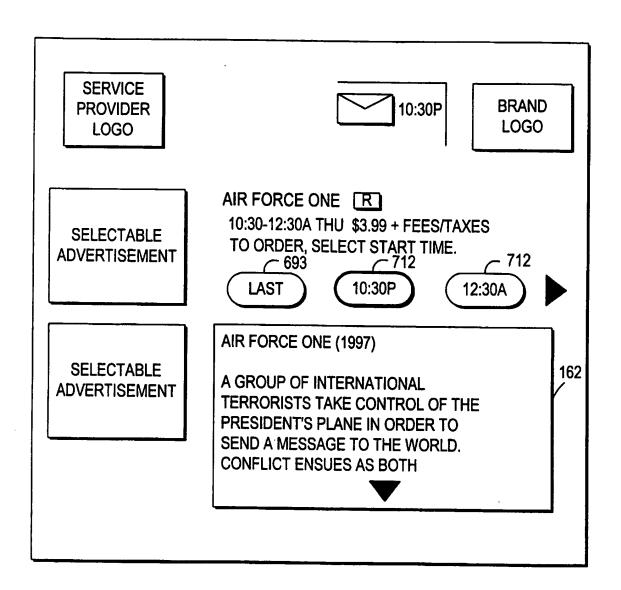


FIG. 72

<u>731</u>

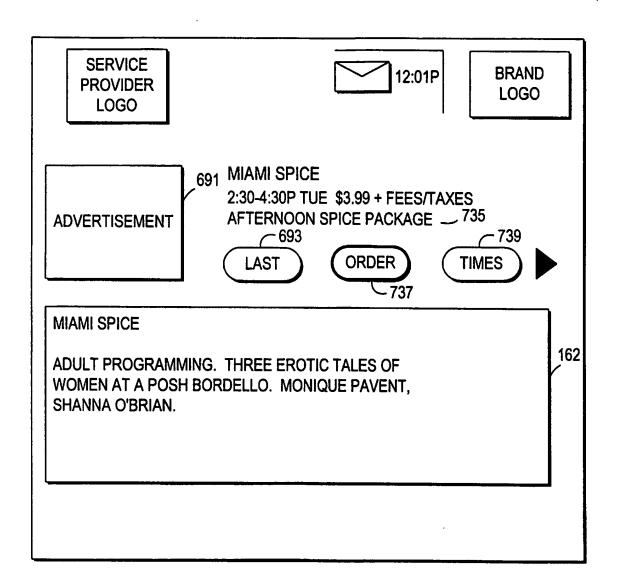


FIG. 73

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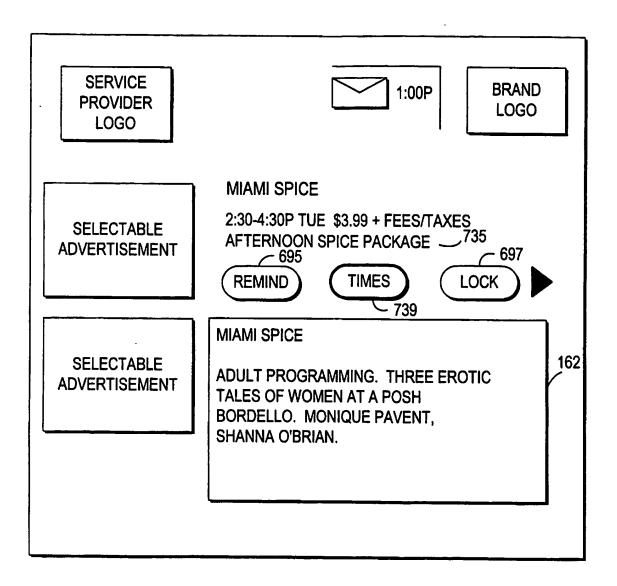


FIG. 74

<u>751</u>

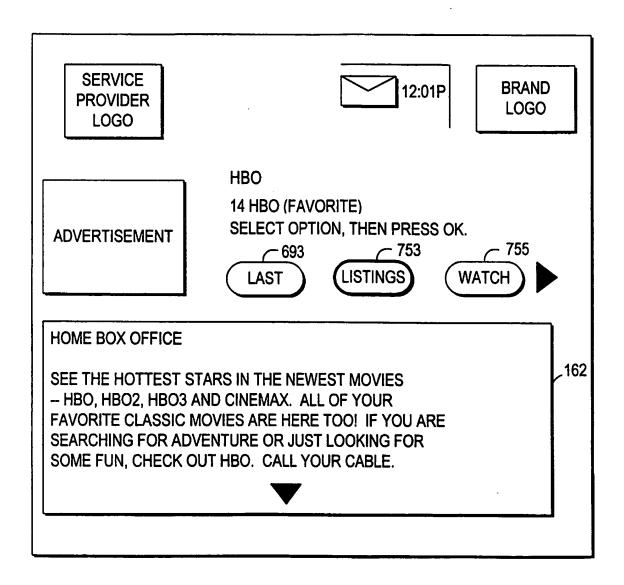


FIG. 75a

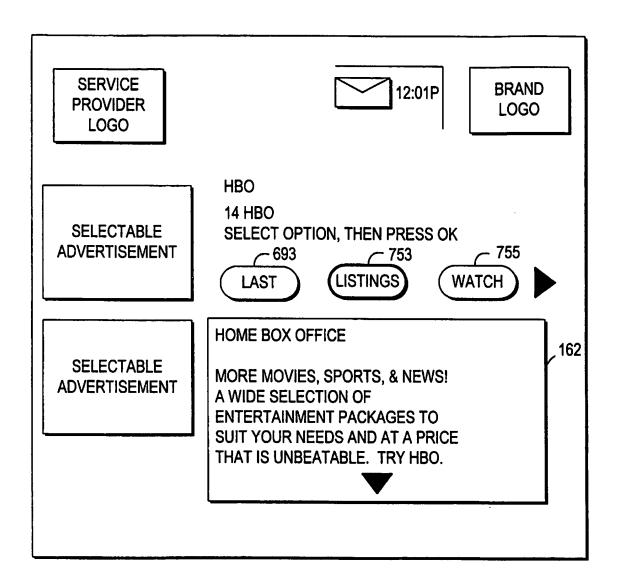


FIG. 75b

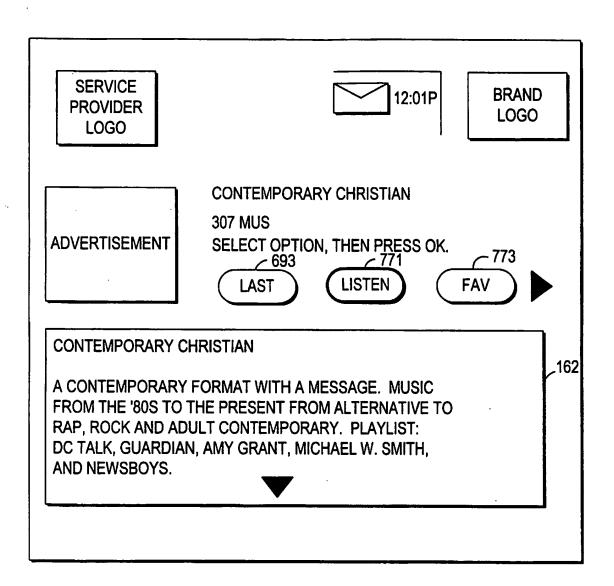


FIG. 76a

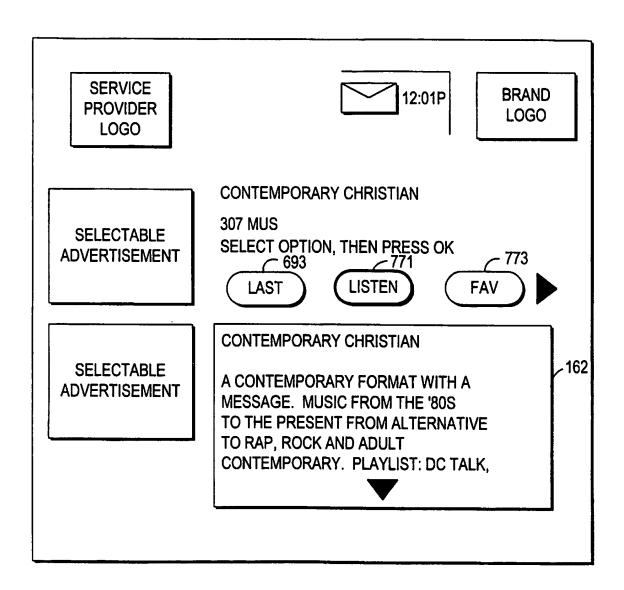


FIG. 76b

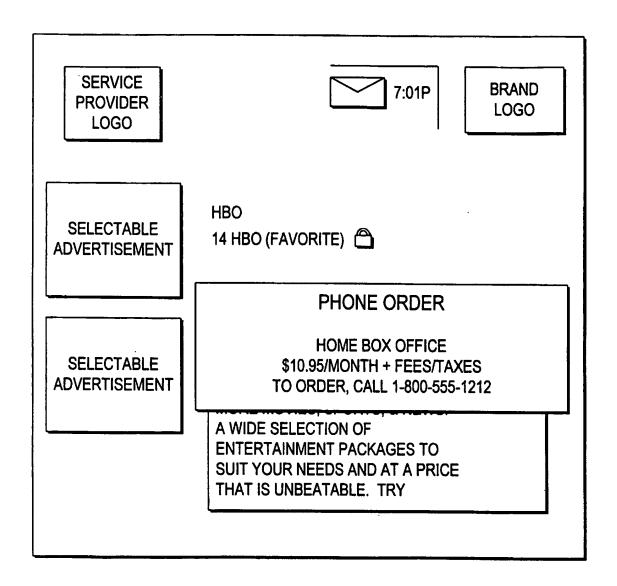


FIG. 77a

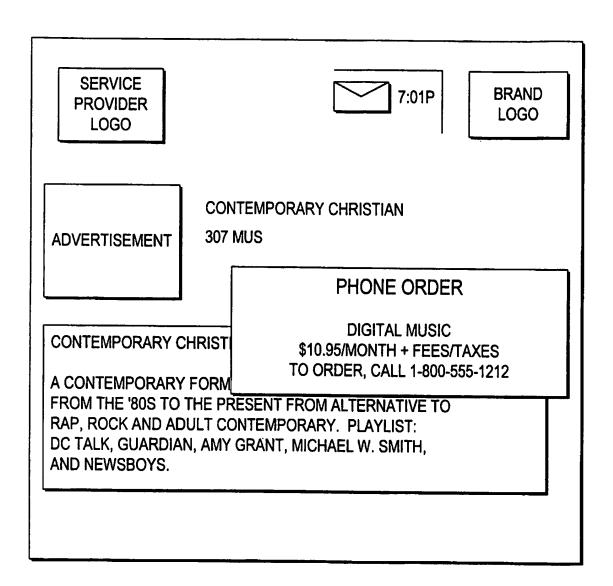


FIG. 77b

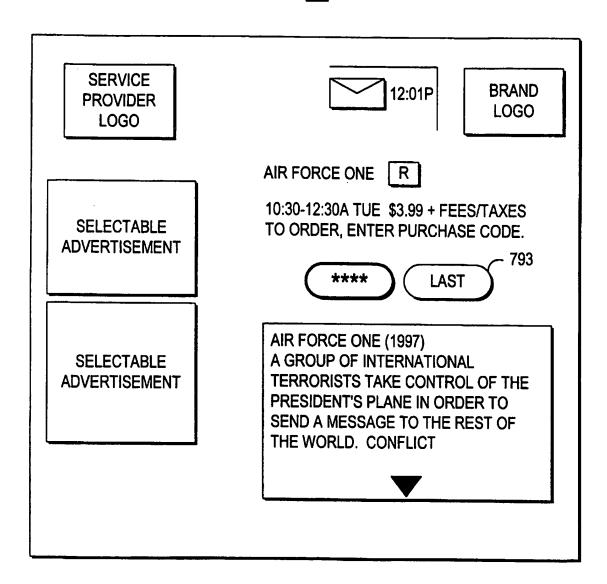


FIG. 78

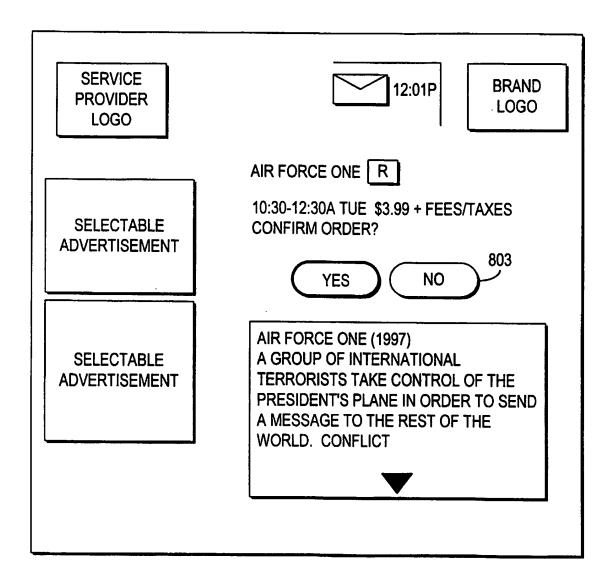


FIG. 79

<u>811</u>

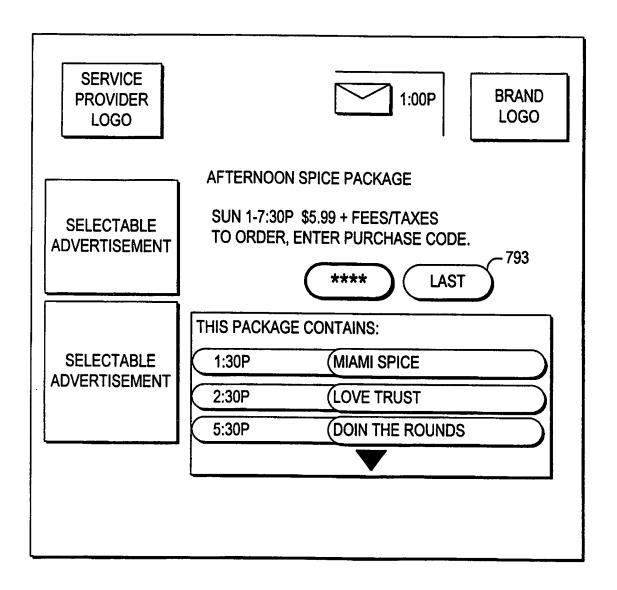


FIG. 80

SERVICE PROVIDER LOGO	12:01P BRAND LOGO	
ADVERTISEMENT	AFTERNOON SPICE PACKAGE SUN 1-7:30P \$5.99 + FEES/TAXES CONFIRM ORDER? YES NO 803	
THIS PACKAGE CONTAINS:		
1:30P (MIAMI SPICE NC 17)		
2:30P (LOV	E TRUST NC 17	
5:30P (DOIN THE ROUNDS NC) 17		

FIG. 81

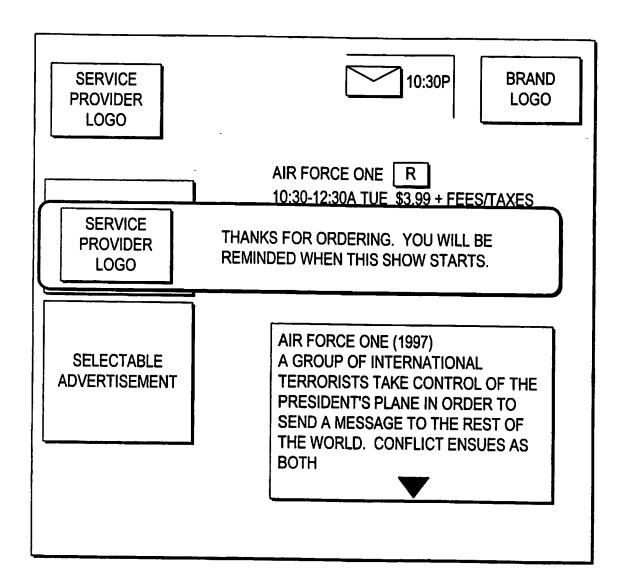


FIG. 82

	BRAND LOGO 10:30P VIDEO
SERVICE PROVIDER LOGO	THANK YOU FOR YOUR ORDER. ENJOY THE SHOW!
SELECTABLE ADVERTISEMENT	10:30P 408 PPV TOMORROW NEVER DIES 10:30 - 12:00P PG

FIG. 83

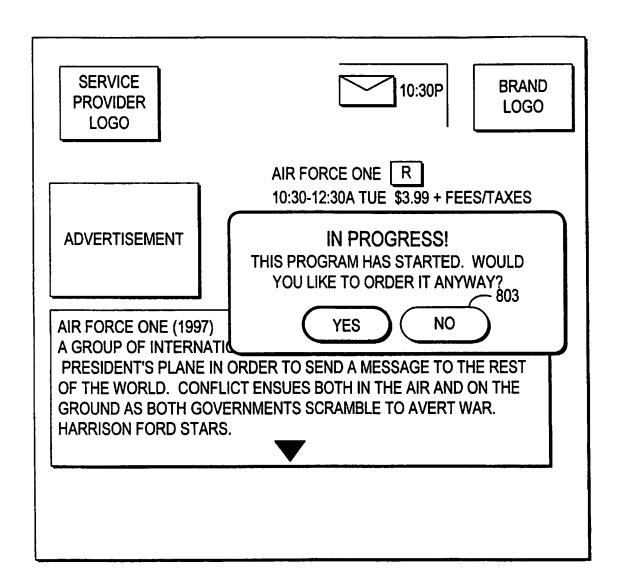


FIG. 84

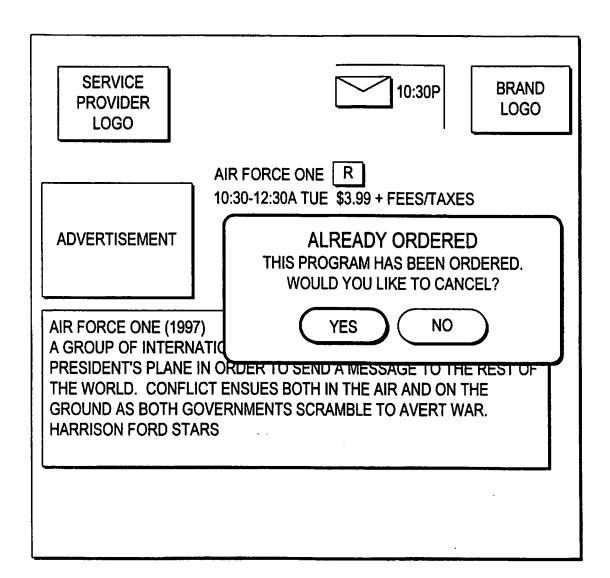


FIG. 85

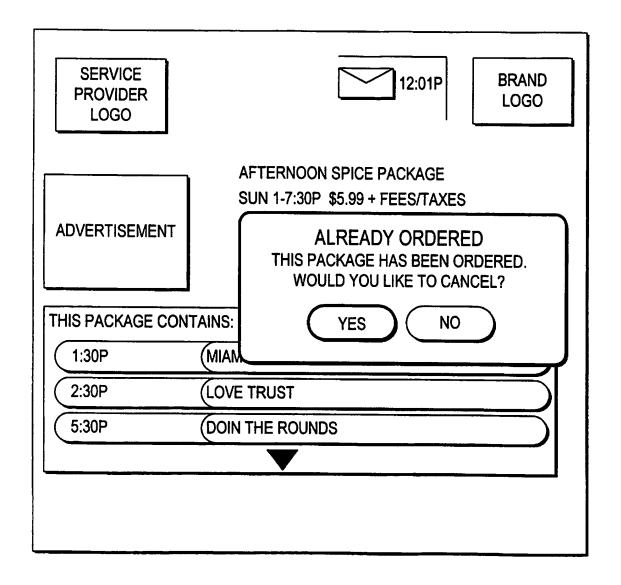


FIG. 86

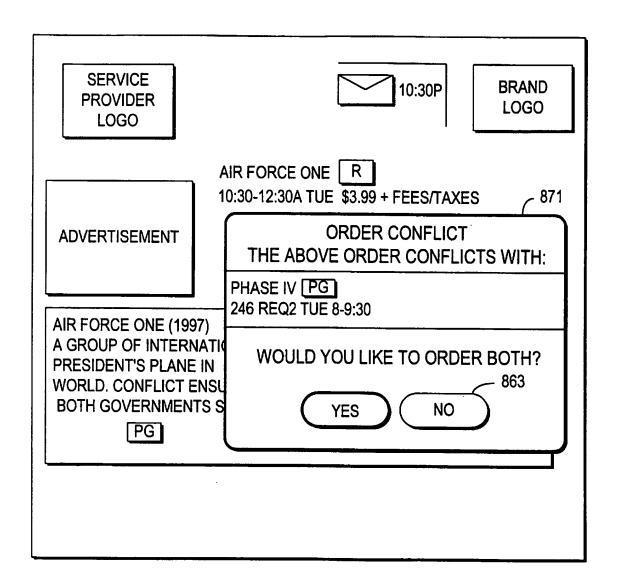


FIG. 87

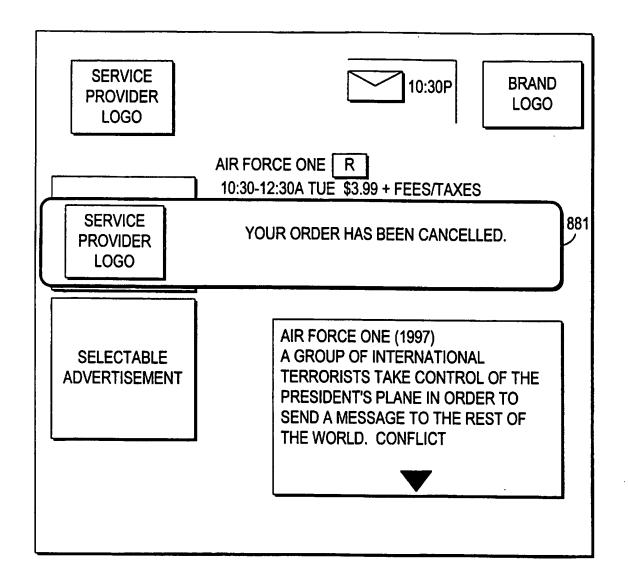


FIG. 88

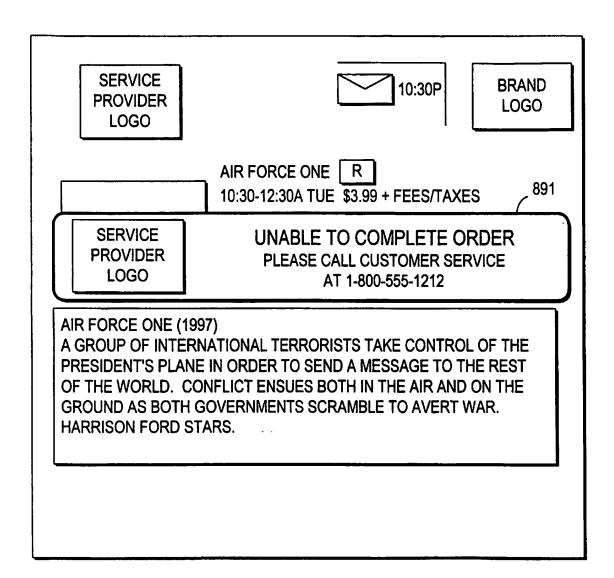


FIG. 89

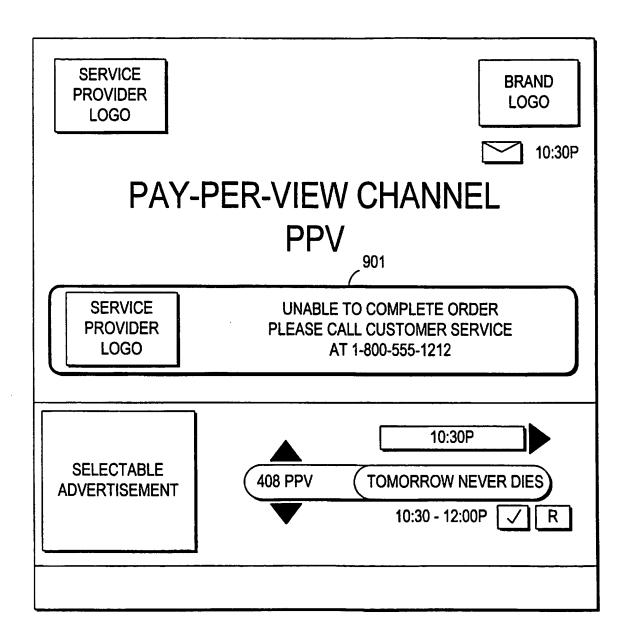


FIG. 90

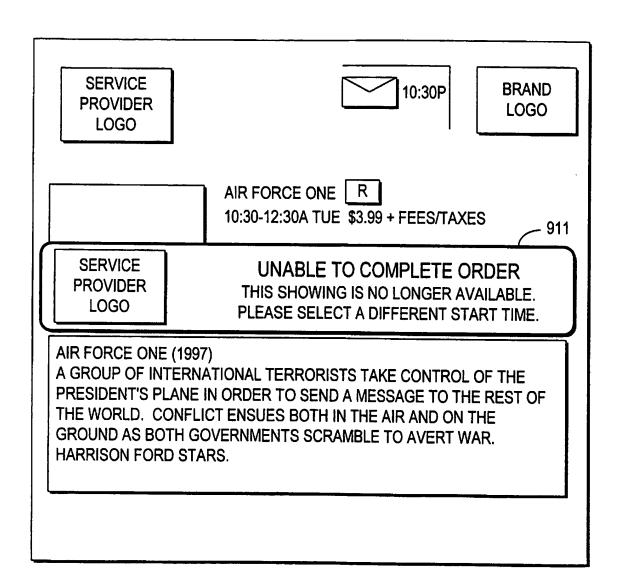


FIG. 91

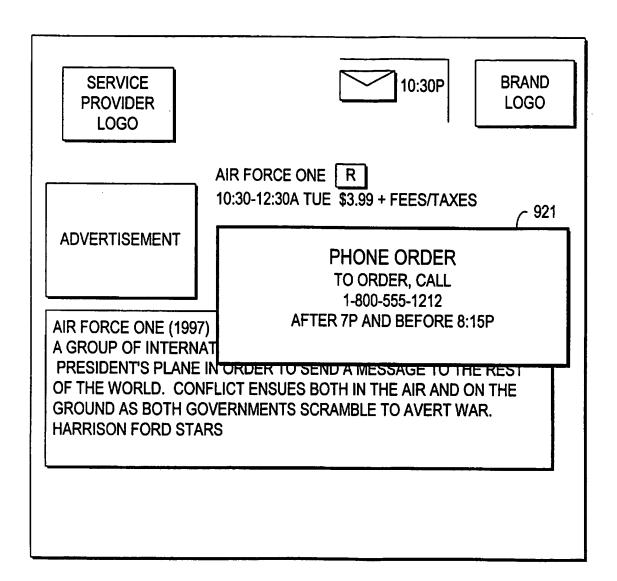


FIG. 92

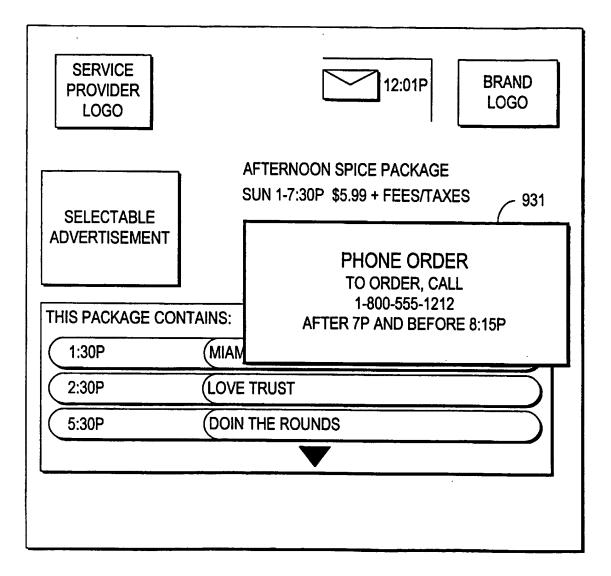


FIG. 93

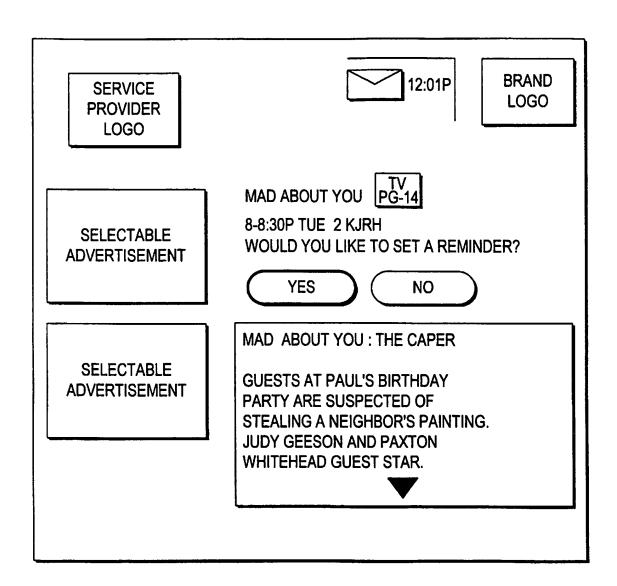


FIG. 94

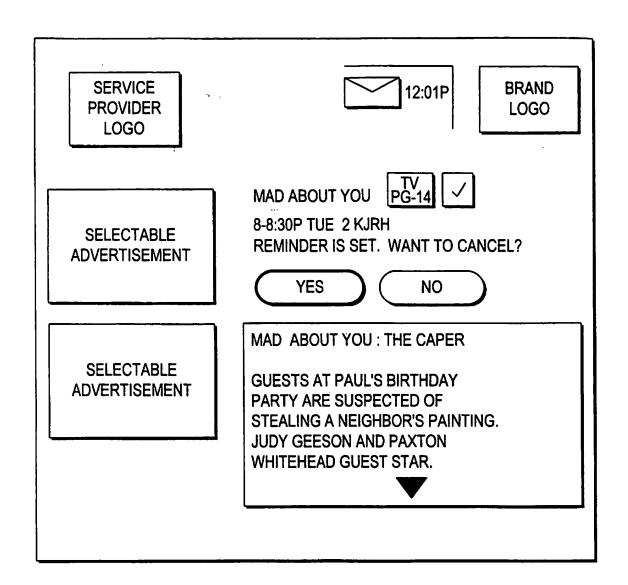


FIG. 95

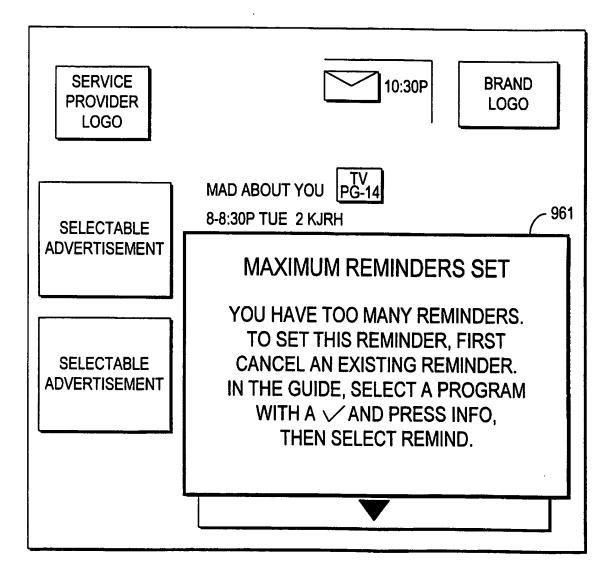


FIG. 96

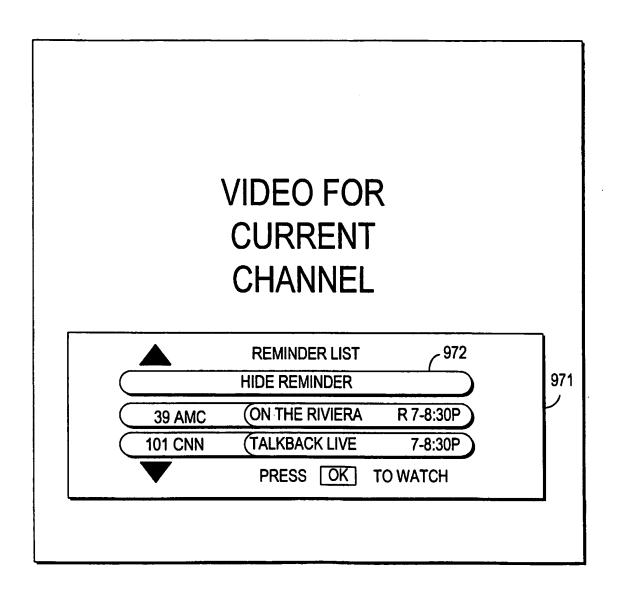


FIG. 97

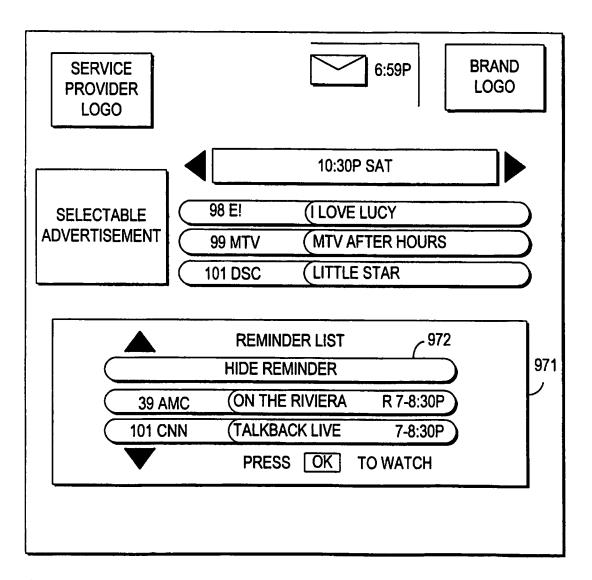


FIG. 98

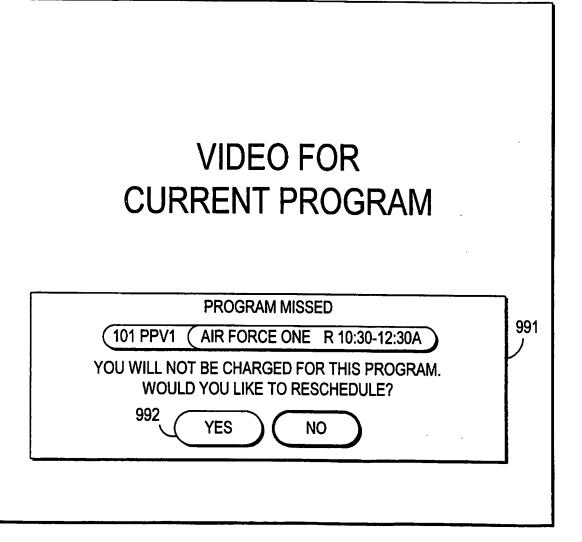


FIG. 99

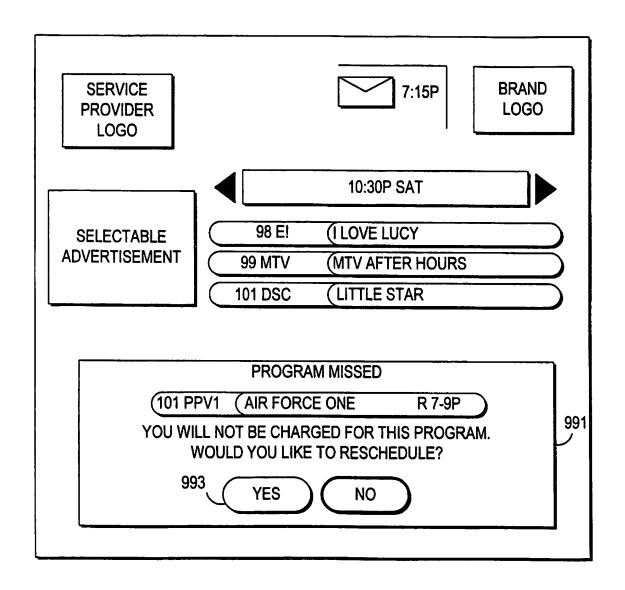


FIG. 100

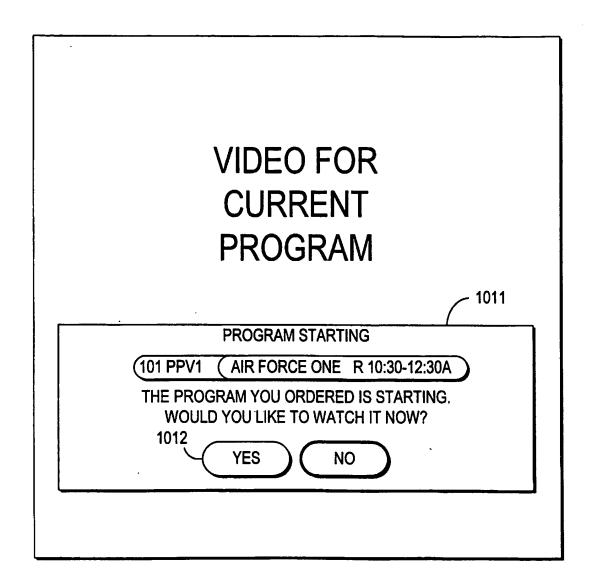


FIG. 101

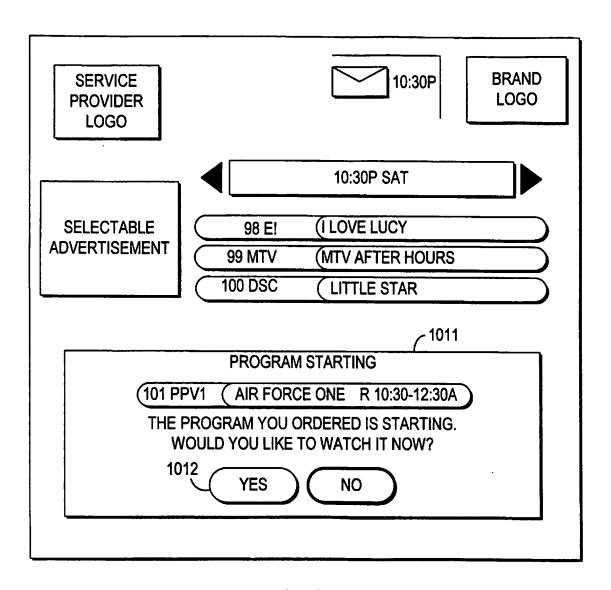


FIG. 102

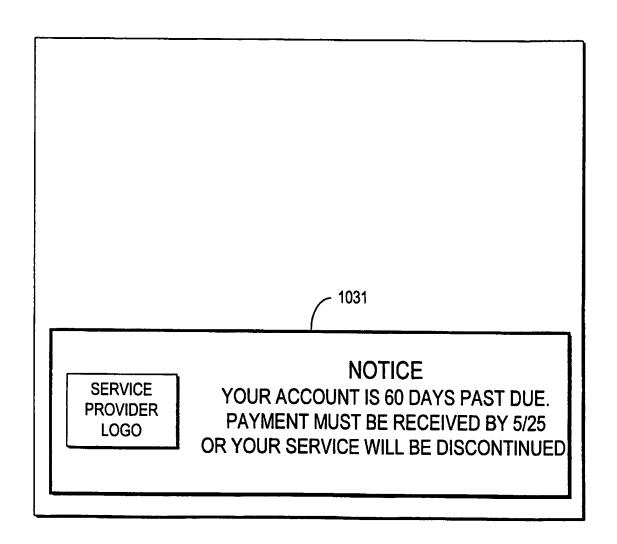


FIG. 103

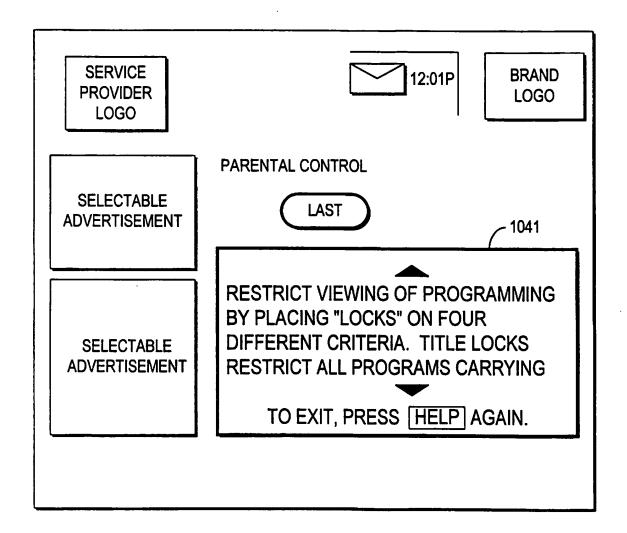


FIG. 104

GUIDE IS TURNED OFF
THIS SERVICE HAS BEEN TEMPORARILY DISABLED.
PLEASE CONTACT YOUR CABLE OPERATOR AT
1-800-555-1212

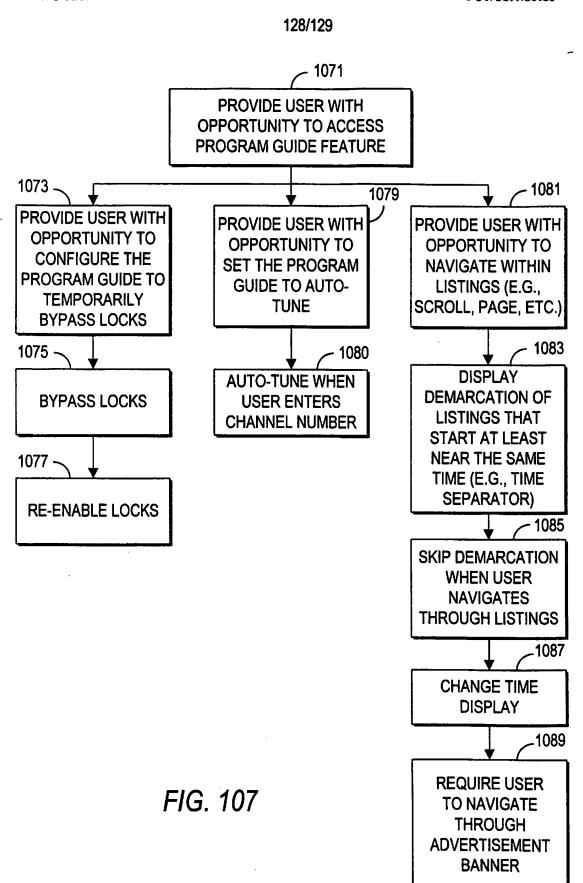
FIG. 105

VIDEO FOR CURRENT PROGRAM

- 1051

GUIDE IS TURNED OFF THIS SERVICE HAS BEEN TEMPORARILY DISABLED. PLEASE CONTACT YOUR CABLE OPERATOR AT 1-800-555-1212

FIG. 106



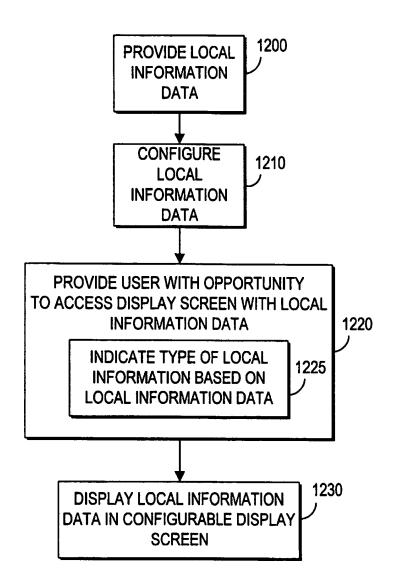


FIG. 108